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ABSTRACT

The 1980-1981 Graduate Record Examination General Test verbal and quantitative ability scores were examined for four age groups of test takers (those age 22 or less, 23-29, 30-39, and 40 or more), and two groups returning to graduate study many years after completing the bachelors degree. The late returners were those 9-15 years beyond the baccalaureate, and those 16 or more years beyond the degree. Average verbal scores were about the same for all test takers regardless of age group or recency of undergraduate study; average quantitative scores were progressively lower across groups of increasing age or distance from the baccalaureate. Correlations between verbal and quantitative scores and first-year graduate school grades were about the same across age groups of enrolled students, suggesting that the scores were equally useful in predicting the first-year graduate school grades of younger and older applicants. Undergraduate grade averages were lower for older than for younger students, and were less closely related to graduate school grades among the older student groups. Differences in fields of study, background characteristics, and attitudes toward test taking also are reported. Supplementary tables and the study questionnaire are included. (Author/SW)

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GRE

GRADUATE RECORD EXAMINATIONS

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OLDER AND YOUNGER GRADUATE STUDENTS: A COMPARISON OF GOALS, GRADES, AND GRE SCORES

Mary Jo Clark

GRE Board Research Report GREB No. 81-17R
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EDUCATIONAL TESTING SERVICE, PRINCETON, NJ

HE 017 412

GRE BOARD RESEARCH REPORTS FOR GENERAL AUDIENCE

- Altman, R.A. & Wallmark, M.M. A Summary of Data from the Graduate Programs and Admissions Manual 74-1R, 1975
- Baird, L.L. Examination of the Graduate Study Application and Enrollment Decisions of GRE Candidates, 79-11R, 1982
- Baird, L.L. Inventory of Documented Accomplishments, 77-3R, 1979
- Baird, L.L. Cooperative Student Survey (The Graduates [\$2.50 each], and Careers and Curricula), 70-4R, 1973
- Baird, L.L. Relationship Between Ratings of Graduate Departments and Faculty Publication Rates, 77-2aR, 1980
- Baird, L.L. & Knapp, J.E. Inventory of Documented Accomplishments for Graduate Admissions: Results of a Field Trial Study of its Reliability, Short-Term Correlates, and Evaluation, 78-3R, 1981
- Burns, R.L. Graduate Admissions and Fellowship Selection Policies and Procedures (Part I and II), 69-5R, 1970
- Centra, J.A. How Universities Evaluate Faculty Performance: A Survey of Department Heads, 75-5bR, 1977, (\$1.50 each)
- Centra, J.A. Women, Men and the Doctorate 71-10R, 1974, (\$3.50 each)
- Clark, M.J. Assessment of Quality in Ph.D. Programs: A Preliminary Report on Judgments by Graduate Deans, 72-7aR, 1974
- Clark, M.J. Program Review Practices of University Departments, 75-5aR, 1977 (\$1.00 each)
- Clark, M.J. & Centra, J.A. Conditions Influencing the Career Accomplishments of Ph.Ds. 76-2R, 1982
- Donlon, T.P. Annotated Bibliography of Test Speededness, 76-9R, 1979
- Flaughner, R.L. New Definitions of Test Fairness In Selection: Developments and Implications, 72-4R, 1974
- Fortna, R.O. Annotated Bibliography of the Graduate Record Examinations, 1979
- Frederiksen, N. & Ward, W.C. Measures for the Study of Creativity in Scientific Problem-Solving, 1978
- Hartle, T.; Baratz, J.; & Clark, M.J. Older Students and the GRE Aptitude Test, 76-13R, 1983
- Hartnett, R.T. Sex Differences in the Environments of Graduate Students and Faculty, 77-2bR, 1981
- Hartnett, R.T. Information Needs of Prospective Graduate Students, 77-8R, 1979
- Hartnett, R.T. and Willingham, W.W. The Criterion Problem: What Measure of Success in Graduate Education? 77-4R, 1979
- Knapp, J. & Hamilton, I.B. The Effect of Non-standard Undergraduate Assessment and Reporting Practices on the Graduate School Admissions Process, 76-14R, 1978
- Lannholm, G.V. & Parry, M.E. Programs for Disadvantaged Students in Graduate Schools 69-1R, 1970
- Miller, R. & Wild, C.L. Restructuring the GRE Aptitude Test, Technical Report, 1979
- Powers, D.E. & Lehman, J. GRE Candidates' Perceptions of the Importance of Graduate Admission Factors, 81-2R, 1982
- Powers, D.E. & Swinton, S.S. Effects of Coaching on GRE Aptitude Test Scores, 81-3R, 1983
- Powers, D.E. and Swinton, S.S. Effects of Self-Study of Test Familiarization Materials for the Analytical Section of the GRE Aptitude Test, 79-9R, 1982
- Reilly, R.R. Critical Incidents of Graduate Student Performance, 70-5R, 1974
- Rock, D. & Werts, C. An Analysis of Time Related Score Increments and/or Decrements for GRE Repeaters across Ability and Sex Groups, 77-9R, 1979
- Rock, D.A. Prediction of Doctorate Attainment in Psychology, Mathematics and Chemistry, 69-6aR, 1974
- Schrader, W.B. Admissions Test Scores as Predictors of Career Achievement in Psychology, 76-1aR, 1978
- Schrader, W.B. GRE Scores as Predictors of Career Achievement in History, 76-1bR, 1980
- Swinton, S.S. & Powers, D.E. A Study of the Effects of Special Preparation on GRE Analytical Scores and Item Types, 78-2R, 1982
- Wild, C.L., Swinton, S.S., & Wallmark, M.M. A Summary of the Research Leading to the Revision of the Format of the GRE Aptitude Test in October 1981, 80-1aR, 1982
- Wild, C.L. Summary of Research on Restructuring the GRE Aptitude Test, 1979
- Wild, C.L. & Durso, R. Effect of Increased Test-Taking Time on Test Scores by Ethnic Group, Age, and Sex, 76-6R, 1979
- Wilson, K.M. A Study of the Validity of the Restructured GRE Aptitude Test for Predicting First-Year Performance in Graduate Study, 78-6R, 1982
- Wilson, K.M. The GRE Cooperative Validity Studies Project, 75-8R, 1979
- Wiltsey, R.G. Doctoral Use of Foreign Languages: A Survey, 70-14R, 1972 (Highlights \$1.00, Part I \$2.00, Part II \$1.50)
- Witkin, H.A.; Moore, C.A.; Olman, P.K.; Goodenough, D.R.; Friedman, F.; & Owen, D.R. A Longitudinal Study of the Role of Cognitive Styles in Academic Evolution During the College Years, 76-10R, 1977 (\$5.00 each)

Older and Younger Graduate Students:
A Comparison of Goals, Grades, and GRE Scores

Mary Jo Clark

GRE Board Research Report GREB No. 81-17R

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Abstract

The 1980-81 GRE General Test verbal and quantitative ability scores were examined for four age groups of test takers--those age 22 or less, 23-29, 30-39, and 40 or more--and two groups returning to graduate study many years after completing the bachelor's degree--those 9-15 years beyond the baccalaureate, and those 16 or more years beyond the baccalaureate. Average verbal scores were about the same for all test takers regardless of age group or recency of undergraduate study; average quantitative scores were progressively lower across groups of increasing age or distance from the baccalaureate. Correlations between both verbal and quantitative scores and first-year graduate school grades were about the same across age groups of enrolled students, suggesting that the scores were equally useful in predicting the first-year graduate school grades of younger and older applicants. Undergraduate grade averages were lower for older than for younger students, and were less closely related to graduate school grades among the older student groups. Differences in fields of study, background characteristics, and attitudes toward test taking also are reported.

Older and Younger Graduate Students:
A Comparison of Goals, Grades, and GRE Scores

The age composition of student groups on the campuses of American colleges and universities steadily became more varied during the 1970s, with increasing numbers of older students at all levels, and this trend is predicted to continue at least through the 1980s. Shifts in the ages of undergraduate students have received the most attention in education circles and in the popular press, as reflected by increased interest in adult and continuing education programs, greater recognition of learning that takes place outside the classroom, concern for the problems of educational reentry, and more explicit attention to the needs of part-time students. But this greying of the campus has not been limited to undergraduates; there are also more older graduate students returning to the campus for the training required by career shifts, new developments in their fields of employment, and personal enrichment. For example, in 1975-76 almost half of the more than 200,000 men and women who took the GRE General Test were under 23 years of age (Hartle, Baratz, & Clark, 1983); as this study will show, by 1980-81 only 39 percent of the test takers were at this age level. The number of GRE test takers 30 years of age or older increased from about 15 percent in 1975-76 to 21 percent of the total in 1980-81. And the number of persons taking the GRE General Test nine years or more after completing their undergraduate degrees increased from 8 to 12 percent of the total, or from more than 18,000 potential "returning" graduate students in 1975-76 to almost 23,000 in 1980-81.

The men and women who take the GRE General Test in any given year represent only a portion of those who may plan to enter graduate study; many graduate programs do not require test scores as part of the admission process, and not all test takers will decide to continue their education. Nevertheless, data from the GRE program files represent a sizable sample of persons with varying backgrounds, interests, and abilities who are sufficiently interested in graduate study to register for and complete the GRE General Test. Also, graduate departments frequently request information about the appropriateness of test scores for older applicants. Therefore, this study was undertaken to examine the following questions:

¹The author wishes to thank Kirsten Yocom for the analyses of 1980-81 test-taker data and Nancy Burton and Nancy Turner for the analyses of the relationship between admission predictors and first-year graduate school grades.

1. How do the GRE scores of older test takers compare with the scores of test takers who are completing the bachelor's degree at the traditional age of 21 or 22?
2. What are the personal characteristics of test takers at different age levels?
3. How do the scores and characteristics of 1980-81 test takers compare with those of the test takers in 1975-76?
4. What is the relationship between traditional admission variables (GRE verbal and quantitative scores and undergraduate grades) and performance in the first year of graduate study for persons who are at different age levels when they begin graduate study?

Data for the following profiles of GRE test takers by age groups were the 203,131 records of men and women who took the GRE General Test at one of the six regularly scheduled national administrations during 1980-81 and who voluntarily answered at least one of the background information questions when they registered for the test. A copy of the background questions is included in this report as Appendix A; a full summary of responses may be found in Goodison (1982). Though the General Test in 1980-81 included a measure of analytical ability as well as tests of verbal and quantitative ability, the form of the analytical measure was changed the next year and the 1980-81 results have not been equated to more recent test results. Therefore, only the verbal and quantitative scores are considered in this report.

The personal and educational characteristics of the 1980-81 test takers are presented in some detail in the tables and text of this report. In general, the subjects represent prospective applicants to almost every field of graduate study. Other research (Oltman & Hartnett, 1983) found that GRE General Test results are required or recommended by about 65 percent of the master's degree programs and about 87 percent of the doctoral degree programs in the United States. Also, a recent follow-up survey of a sample of 1979-80 test takers (Baird, 1982) found that 61 percent were attending graduate school in the intended field in the year following testing (68 percent were attending a graduate or professional school of some type) and that 58 percent of those attending were attending full time (Table 6, p. 16). Probably most of the 1980-81 test takers were planning to apply to or were already enrolled in a program that requires or recommends GRE test results. We do not know how many of them actually attended graduate school or whether they studied full or part time, but Baird's results suggest some reasonable estimates.

Age groups were defined to be consistent with the earlier study of GRE test performance in relation to age (Hartle et al., 1983): 22 or younger (the traditional age of college graduation); 23-29; and 30 or older (the "older students"). In addition, because of the larger number of older test takers in 1980-81, this report includes separate tabulations for those age 30-39 and 40 or more. The report also examines the performance and characteristics of test takers 9-15 years beyond completion of the bachelor's degree and 16 or more years beyond the bachelor's degree. These last two groups are subsets of the older test-taker groups and are of particular interest because they provide an opportunity to examine the performance and characteristics of men and women who are returning to university settings after a number of years in other activities. For example, test takers 9-15 years beyond the baccalaureate make up only 47 percent of the group age 30-39 and must consist mostly of those who completed their undergraduate degrees at age 21 or 22 and are now reentering academe. In contrast, most of the others in this age group have completed their bachelor's degrees more recently, suggesting that they started late or interrupted their academic careers or took longer than the usual four years to complete the undergraduate degree. Similarly, only half of those age 40 or more are 16 or more years beyond the bachelor's degree; the others in this group have completed their undergraduate degrees more recently. Other differences in these two ways of defining "older" students, by age or by years since the baccalaureate, will be indicated when discussing the research results.

A cross tabulation of age and years since receiving the bachelor's degree may be found in Table 1. A comparison of these results with a similar cross tabulation of 1975-76 test takers (Hartle et al, 1983, Table 2, p. 5) indicates that the proportions of each age group earning the bachelor's degree at various points in time are quite stable, but the 1980-81 population has a substantially smaller number of test takers age 22 or less and larger number of test takers age 30 or more.

GRE Verbal and Quantitative Scores by Age Groups

The earlier study of GRE scores in relation to age (Hartle et al., 1983) found that the average verbal and quantitative scores of older test takers were somewhat lower than the average scores of traditionally aged college graduates, but that the differences in verbal scores were explained in large part by differences in the fields of study planned by those in the younger and older groups. Thus, when the scores of younger and older test takers planning graduate study in the same

Table 1

Age and Years Since the Bachelor's Degree^a

Bachelor's Degree												
Age	Within one year			2-8 years earlier			More than 8 years earlier			Total response		
	N	% Col.	% Row	N	% Col.	% Row	N	% Col.	% Row	N	% Col.	% Row
22 or less	75,489	67	98	1,500	02	02	0	0	0	76,989	39	100
23-29	29,352	26	37	49,714	80	62	458	02	01	79,524	40	100
30 or more	7,836	07	19	10,859	18	26	22,505	98	55	41,200	21	100
Total Response	112,677	100	57	62,073	100	31	22,963	100	12	192,713	100	100

^aTest takers who failed to answer the age or degree date questions are omitted from the table. The population is 203,131 men and women who took the GRE General Test at one of six regularly scheduled national administrations during 1980-81 and who responded to one or more background questions.

fields were compared, the average verbal score of the older group usually was about the same as the average verbal score of the younger group. This was not true for the average scores of the age groups on the quantitative measure; mean GRE quantitative scores were lower for older test takers in every field, and the size of the difference between the younger and older group mean quantitative scores tended to increase with increasing age of the group. Because of these earlier findings, the analyses for this report were conducted separately for each of the 11 major areas of academic study that are used in other reports of GRE scores (e.g., Goodison, 1982). The specific fields included in each academic area are listed in Appendix B. The pattern of GRE verbal and quantitative scores across age groups was examined separately within each curricular area. The results of these analyses are presented in Table 2. The mean verbal and quantitative scores across age groups for four major clusters of fields (humanities, social sciences, biological sciences, and physical sciences) also are presented in graphic form in Figures 1 through 4 for easier interpretation.

An examination of Table 2 and Figures 1 through 4 indicates that the mean verbal scores of test takers planning graduate study in the humanities are about the same in each of the four age groups, are higher for older test takers planning graduate study in the social sciences, remain about the same across age groups for test takers planning to study in the biosciences and health fields, and are somewhat lower for older test takers planning graduate study in applied biology, engineering, or physical science fields. It should be noted that these latter fields in the physical and applied biological science areas account for a very small percentage of the older test takers--about 11 percent of those age 30-39 and only about 5 percent of those age 40 or more.

The patterns of mean quantitative scores across the curricular areas present a different picture. Though the levels of mean quantitative scores vary considerably--much higher in the physical and biological sciences than in the humanities and social sciences--in each group, there is a clear trend toward lower scores in the older age groups.

Table 2 and Figures 1 through 4 also include the mean verbal and quantitative scores of test takers 9-15 years and 16 or more years beyond the bachelor's degree. In many cases, the mean verbal scores of the men and women who finished their undergraduate studies more than 16 years earlier are the highest of any age group. In general, both the mean verbal and mean quantitative scores of these groups parallel the within-field scores of men and women age 30-39 and 40 or more but at a

Table 2
Mean GRE Scores by Intended Graduate Major Area, Age, and Years Since Degree ^a

			Total N	Age				Years Since Baccalaureate	
				22 or less	23-29	30-39	40 or more	9-15	16 or more
Number of Respondents			203,131	77,837	81,209	32,403	9,887	16,253	6,939
% of Row			100	39	40	16	5	8	4
I. Humanities ^b									
A. Arts	% of Col. N	3	3	3	2	2	2	2	
	GRE-V	493	496	490	505	490	508	513	
	GRE-Q	481	502	478	452	414	455	428	
B. Other Humanities	% of Col. N	9	9	9	8	8	8	7	
	GRE-V	530	532	525	540	529	561	558	
	GRE-Q	509	525	511	485	427	502	456	
II. Social Sciences									
A. Education	% of Col. N	16	8	16	29	37	37	44	
	GRE-V	448	436	436	468	464	477	487	
	GRE-Q	449	471	450	449	409	461	430	
B. Other Social Sciences	% of Col. N	11	10	11	12	13	12	12	
	GRE-V	481	474	476	503	500	525	537	
	GRE-Q	482	494	483	473	434	490	462	
C. Behavioral Sciences	% of Col. N	17	18	16	15	14	13	11	
	GRE-V	506	509	499	515	521	541	557	
	GRE-Q	511	526	510	489	444	510	478	
III. Biological Sciences									
A. Biosciences	% of Col. N	6	8	6	3	1	2	1	
	GRE-V	508	514	500	506	505	516	537	
	GRE-Q	569	584	559	528	495	541	515	
B. Health Sciences	% of Col. N	9	7	10	10	9	8	8	
	GRE-V	484	479	481	504	484	518	520	
	GRE-Q	504	533	505	481	420	499	451	

(cont.) 13

Table 2 (cont.)
Mean GRE Scores by Intended Graduate Major Area, Age, and Years Since Degree

			Total N	Age				Years Since Baccalaureate	
				22 or less	23-29	30-39	40 or more	9-15	16 or more
Number of Respondents			203,131	77,837	81,209	32,403	9,887	16,253	6,939
% of Row			100	39	40	16	5	8	4
III.	C. Other Applied								
	Biological Science	% of Col. N	3	4	3	2	1	2	2
		GRE-V	470	479	468	441	454	461	456
		GRE-Q	541	563	532	490	435	498	440
IV.	Physical Sciences								
	A. Engineering	% of Col. N	6	8	7	4	1	3	1
		GRE-V	449	484	419	425	453	442	469
		GRE-Q	655	679	640	626	593	651	632
	B. Mathematical Sciences	% of Col. N	4	4	4	3	2	3	2
		GRE-V	484	513	455	487	512	502	548
		GRE-Q	649	671	637	631	609	644	647
	C. Physical Sciences	% of Col. N	4	6	4	2	1	1	1
		GRE-V	511	530	483	494	493	477	500
		GRE-Q	628	646	605	600	575	604	607
V.	Not in Above	% of Col. N	3	2	3	3	3	3	3
		GRE-V	466	460	465	485	464	498	498
		GRE-Q	492	498	496	493	422	507	456
VI.	Undecided	% of Col. N	8	11	7	5	6	5	4
		GRE-V	484	497	469	484	471	507	517
		GRE-Q	519	541	509	478	420	493	460
VII.	No Response	% of Col. N	2	2	2	2	3	1	2
		GRE-V	480	503	468	475	468	494	111
		GRE-Q	522	554	526	485	426	492	462

Table 2 (cont.)

Mean GRE Scores by Intended Graduate Major Area, Age, and Years Since Degree

			Age				Years Since Baccalaureate	
			Total N	22 or less	23-29	30-39	40 or more	9-15 16 or more
Number of Respondents			203,131	77,837	81,209	32,403	9,887	16,253
% of Row			100	39	40	16	5	8
VIII. Total	% of Col. N	100	100	100	100	100	100	100
	GRE-V	485	496	474	491	486	504	512
	GRE-Q	520	550	517	485	430	496	456
Men	% of Col. N	46	44	50	44	30	42	30
	GRE-V	484	505	470	477	474	497	504
	GRE-Q	563	602	555	520	473	536	505
Women	% of Col. N	54	56	50	55	69	58	70
	GRE-V	486	488	478	503	490	509	516
	GRE-Q	484	510	479	458	410	467	435

^aBased on GRE test takers, September 1980 to June 1981, who completed the GRE General Test and the background questionnaire.

^bDisciplines included in each area are identified in Appendix B. Mean test scores by age groups for each discipline may be found in Appendix C.

Figure 1

Humanities Fields:
Mean Test Scores by Age and Years
Since Baccalaureate

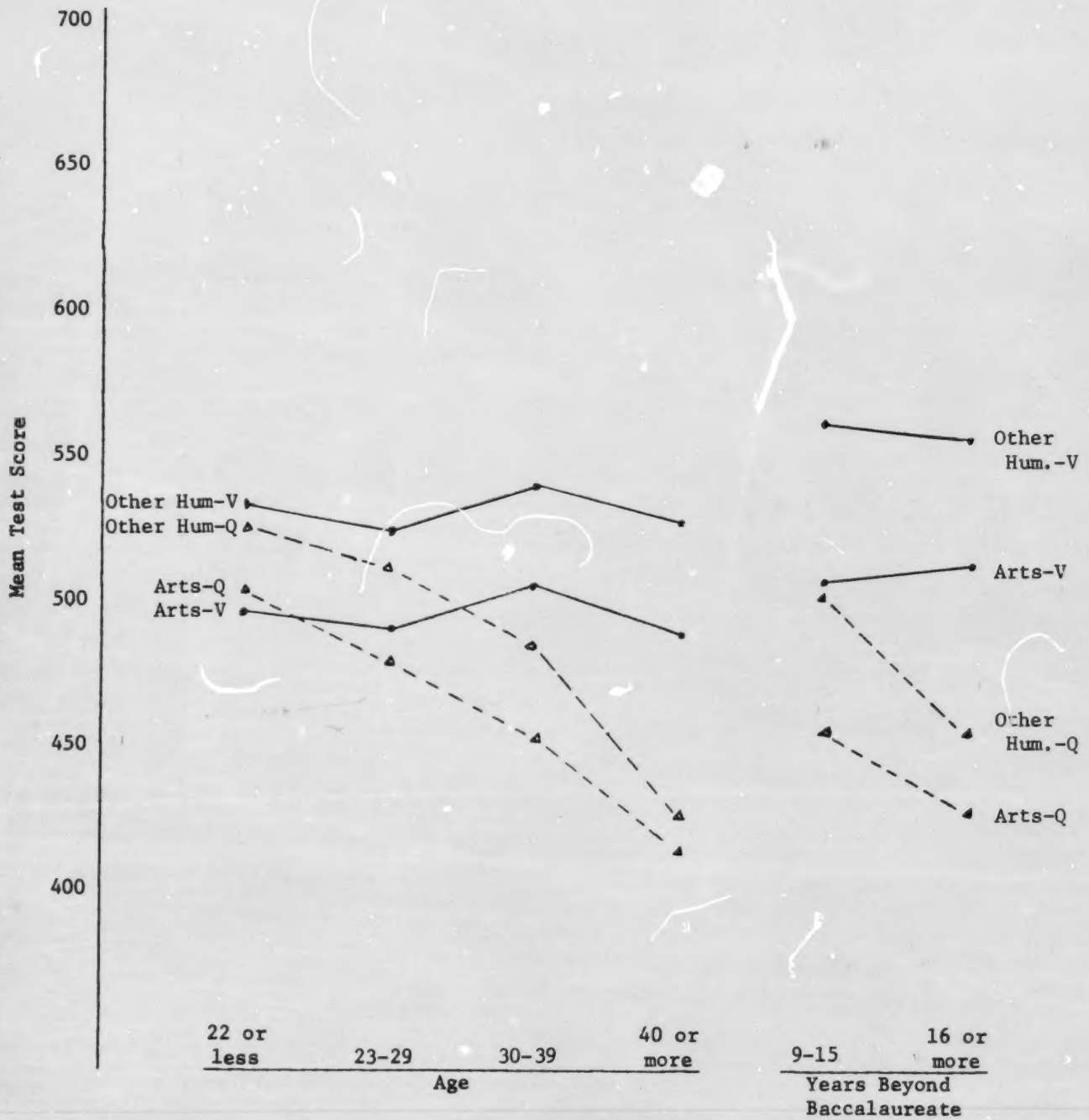


Figure 2

Social Science Fields:
Mean Test Scores by Age and Years
Since Baccalaureate

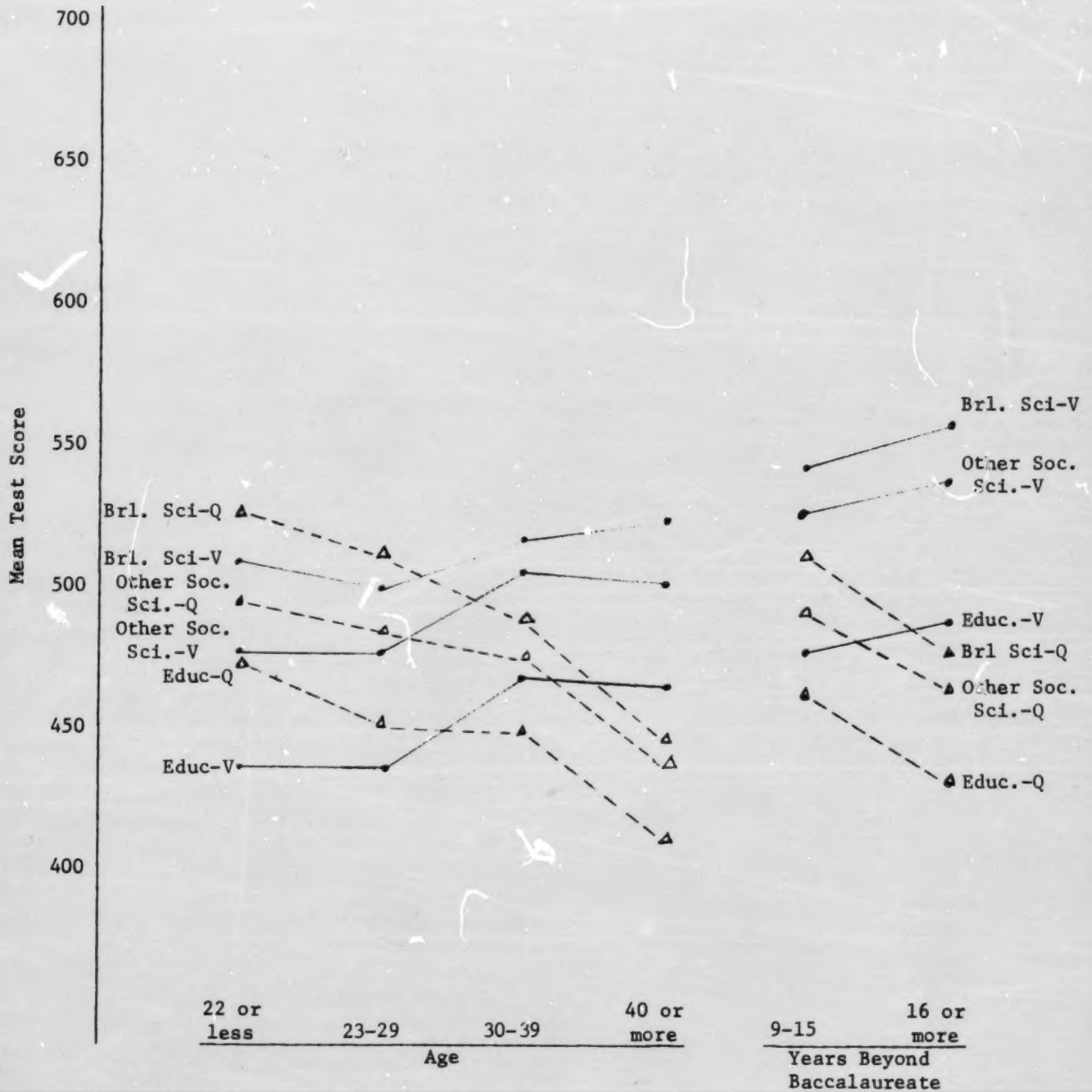


Figure 3
Biological Sciences Fields:
Mean Test Scores by Age and Years
Since Baccalaureate

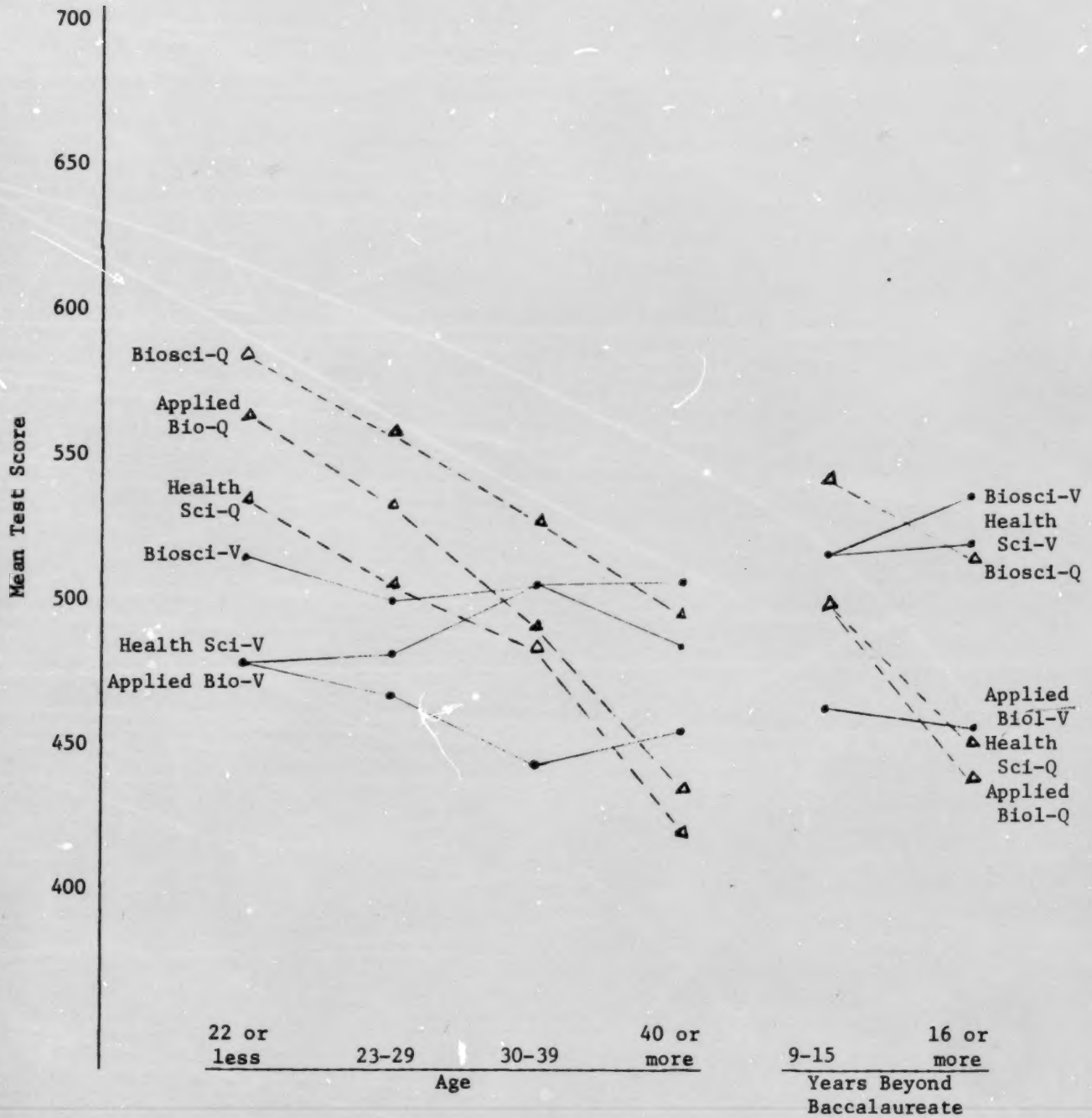
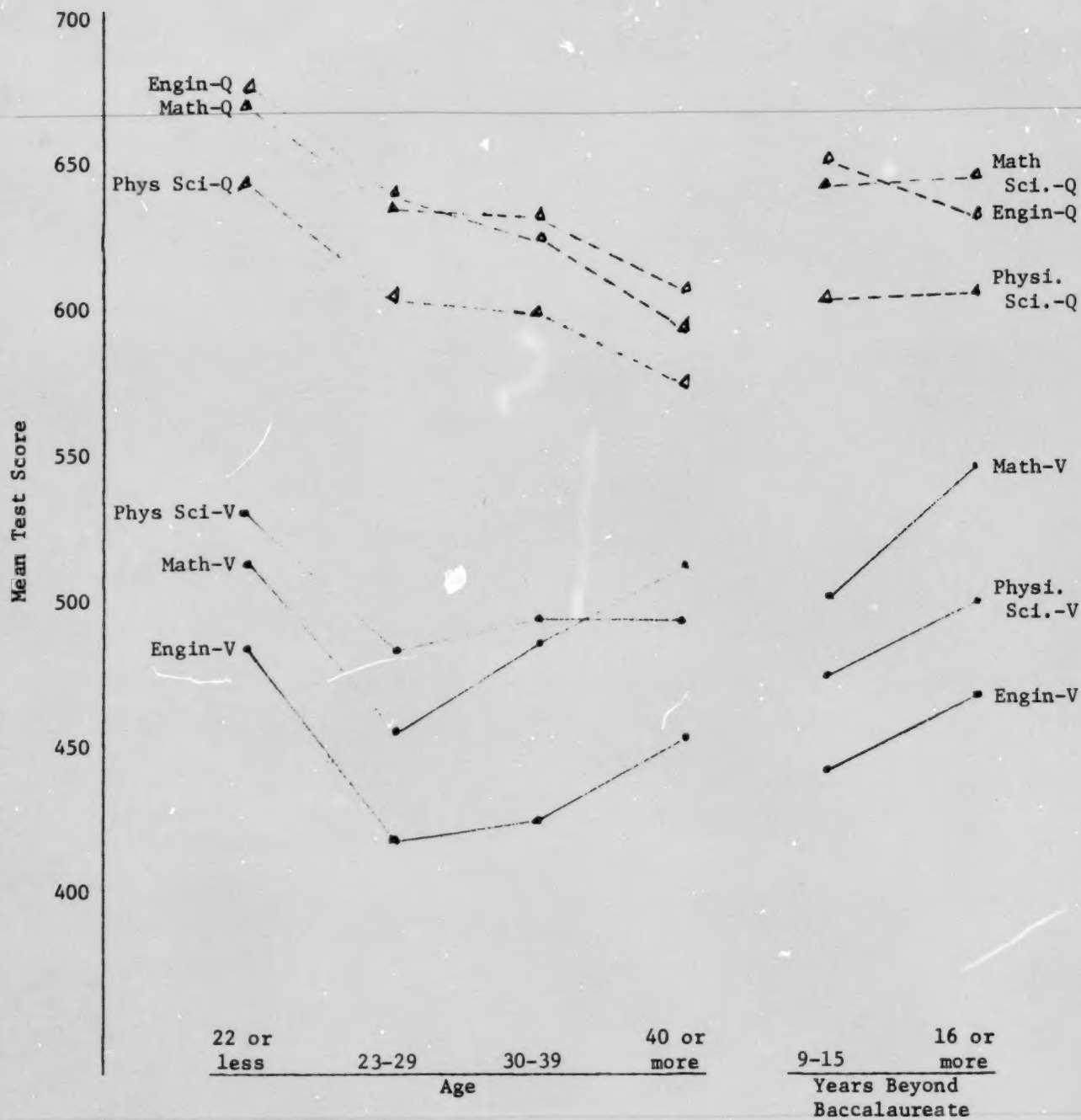


Figure 4

Physical Science Fields:
Mean Test Scores by Age and Years
Since Baccalaureate



slightly higher level. This finding is consistent with the status of these groups as highly self-selected adults who are returning to further study several years after completing their undergraduate degrees.

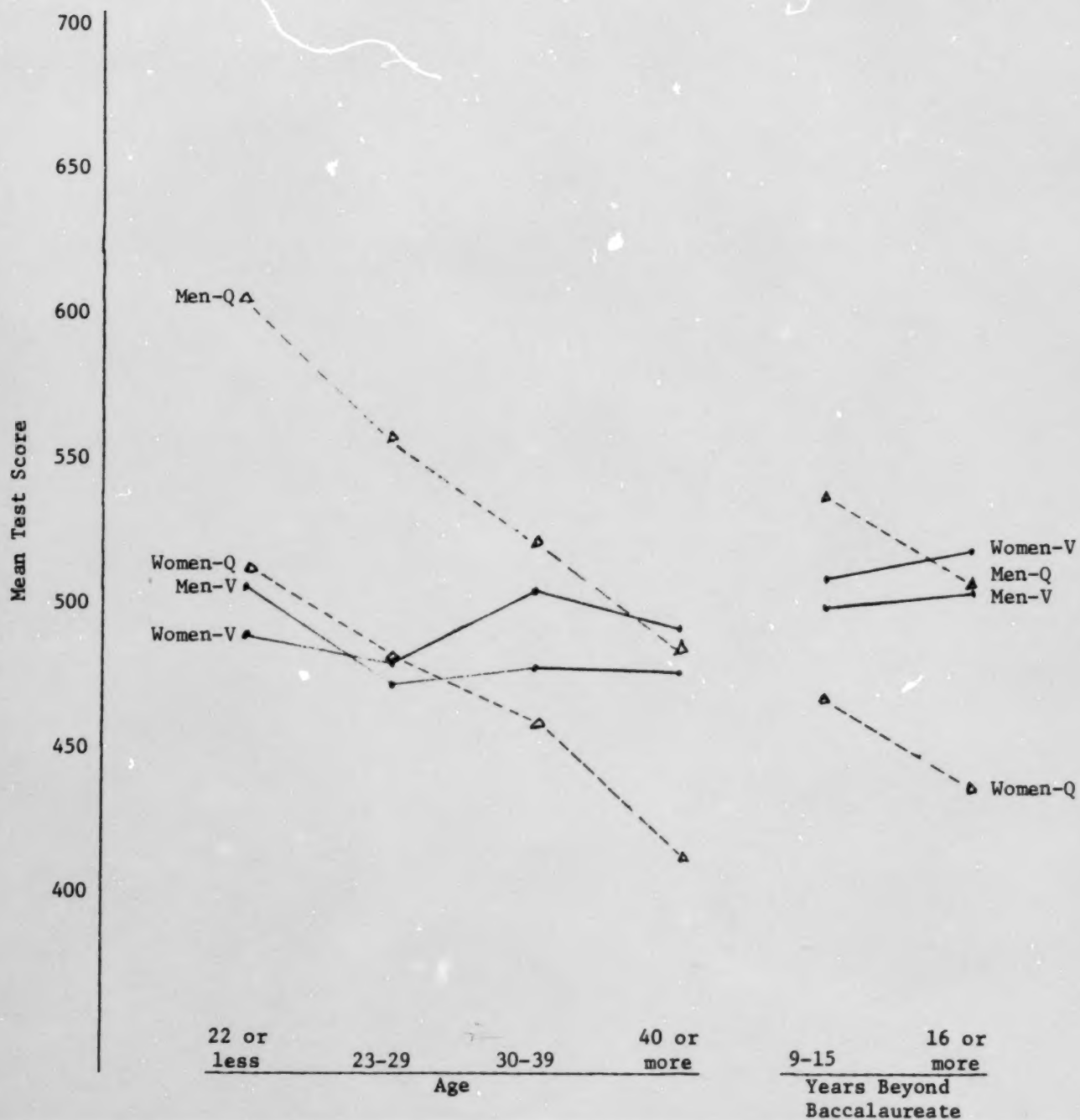
The relatively higher average test scores of test takers 9-15 and 16 or more years beyond the bachelor's degree raise interesting questions about the most appropriate way to define "older" graduate students. These groups are quite different from those of the same ages who have completed undergraduate degrees more recently. For example, findings not shown in Table 2 indicate that the group 16 or more years beyond the baccalaureate are almost all people in their late 30's and beyond who completed their college degrees "on schedule" in 1965 or earlier. Seventy percent of them are women, suggesting that many are returning to graduate study after time out for homemaking and child rearing. More of them attended private than public undergraduate institutions when compared to the group 40 years of age or older (41% vs. 33%); more of them have already attended graduate school (60% vs. 49%); more of them indicated a Ph.D. degree objective (52% vs. 45% for the men, 32% vs. 29% for the women); more of them grew up in homes with mothers and fathers who had college educations; fewer of them are members of minority groups (89% vs 86% white.) In short, classification by years since the bachelor's degree results in groups of students who completed college at the traditional age and are "returning" to graduate study, while classification by age results in a greater variety of personal backgrounds and educational experiences.

Test takers age 30 or more make up very different proportions of potential graduate students in the various fields. They are most heavily represented in education, where 58 percent of all prospective graduate students in this sample are 30 years of age or older and 28 percent are 40 or more. The next largest representations are in other humanities with 40 percent age 30 or more and 10 percent 40 or more and the behavioral sciences with 35 percent age 30 or more and 8 percent 40 or more. The smallest representations of older applicants are in the physical sciences (15 percent age 30 or more) and engineering (17 percent ages 30 or more). In all other major curricular areas, at least 20 percent of the potential students were 30 years of age or more.

Figure 5 diagrams the mean verbal and quantitative scores of men and women by age groups across all curricular areas. (The data for Figure 5 may be found at the end of Table 2.) The mean verbal scores of women age 30 or more are higher than the verbal scores of women age 22 or less; the mean verbal scores of the older age groups of men are slightly lower than

Figure 5

GRE Scores by Age and Sex
1980-1981



the mean verbal score of the youngest group, but even for the men, the mean verbal scores of returning students (e.g., those at least nine years beyond the baccalaureate degree) are at about the same level as the mean score of the youngest group. Mean quantitative scores are lower by about the same amount from one age group to another for both women and men.

The standard deviations of the verbal and quantitative scores by age groups are omitted from Table 2 because they showed very little variation from group to group. The total group verbal score standard deviation was 122; the total group quantitative score standard deviation was 132. In general, the standard deviations are somewhat larger for men than for women (cf., low 130s for men, 110s to 120s for women) but are substantially the same within sex across age groups.

Readers interested in the mean verbal and quantitative scores of test takers planning graduate study in specific disciplines can find these data by age group and sex in Appendix C.

In summary, though there are some fluctuations in mean verbal scores across age groups within curricular areas, the patterns of scores in the 1980-81 data strengthen the tentative finding from 1975-76 data. That is, over all test takers planning graduate study in a particular field, the average GRE verbal score of older students tended to be as high as or higher than the average GRE verbal score of traditional-aged students planning to enter the same field directly from college. Undergraduates who complete the bachelor's degree at older ages may tend to score somewhat lower, and the highly self-selected persons returning to study after several years away from academe tend to score higher than average on the verbal measure. In general, however, the conclusion is one of consistency across age groups and across number of years since the bachelor's degree for the GRE verbal measure.

The picture for the quantitative measure is similarly consistent, but different in that the mean scores are progressively lower at each advancing age level. The overall difference between those age 22 or less and those age 40 or more is about 120 points or one standard deviation, and the difference is slightly larger for men than for women. The average quantitative scores of older test takers planning to study in the physical sciences are much higher than for candidates in any other curricular area, but even in these fields the average score for the oldest group is about 70 points below the average score for the youngest group.

Characteristics of GRE Test Takers by Age Group

Marked differences in the backgrounds and interests of GRE test takers at different age levels are to be expected. Most of the youngest group, those age 22 or less, are completing or have completed their undergraduate studies at the traditional time and are making major career decisions about graduate study or work. They made up 39 percent of the test takers in 1980-81 (see Table 2). Many of the best students in undergraduate programs probably are in this group, encouraged by their professors and families to proceed directly to graduate or professional study. The most popular area of study is in the behavioral sciences. Students in the sciences, particularly, tend to continue graduate study immediately after completing the undergraduate degree, and this is reflected in the smaller proportions of older test takers who indicated an intended graduate major in the biological or physical sciences, as reported in Table 2.

Test takers age 23-29 made up 40 percent of the 1980-81 total. About a third of this group are just finishing college; others are returning within eight years of completing their undergraduate studies (see Table 3). They continue to be spread over a wide variety of fields, with the largest number in education and the behavioral sciences--16 percent each (see Table 2). Work on master's degrees directly related to professional preparation or to upgrading job skills probably accounts for a large proportion of this group.

The two older groups, age 30 to 39 (16% of the total number) and 40 or more (5% of the total), are concentrated very heavily in the social sciences, with 56 percent of those in their 30's and 2 out of 3 of those 40 or more planning study in education or another social science field. Many of these test takers are probably changing careers, or are returning to graduate study after several years away from academe in order to return to the job market.

Selected characteristics of 1980-81 GRE test takers in each of the four age groups, as indicated by their responses to the background questions that accompanied registration for the GRE General Test, are reported in Table 3. Almost all of those age 22 or less had received the bachelor's degree within one year of testing or were still undergraduates (about 5% of this group). Two out of three of those age 23-29 completed their bachelor's degrees two to eight years prior to testing; the remainder of this age group (37%) completed their undergraduate degrees within the last year, suggesting that they started college as adults or took longer than four or five years to complete

Table 3

Characteristics of GRE Test Takers by Age Groups

	Age			
	22 or less	23-29	30-39	40 or more
Number of cases ^a	76,989	79,524	31,580	9,620
Mean year of receipt of bachelor's degree	1981	1978	1973	1967
Mean age	22	26	34	47
% with bachelor's degree:				
within one year	98%	37%	18%	21%
2-8 years earlier	2	63	29	19
9-15 years earlier	0	1	47	10
16 or more years earlier	0	0	7	50
% from public undergraduate institutions	57	72	72	66
% who are female	56	50	55	69
% who identified themselves as:				
American Indian	0.4	0.7	1.0	0.6
Black	6.0	6.2	7.2	8.0
Mexican American	0.8	1.5	1.8	1.5
Oriental	2.2	1.5	1.1	1.0
Puerto Rican	0.8	0.9	0.7	0.5
Other Hispanic	0.8	0.9	0.6	0.9
White	87.2	86.2	85.6	85.8
Other	1.8	2.3	2.0	1.4
% with degree objective Ph.D. or beyond	40	34	38	34
% with no previous graduate study	96	73	53	51
% with a master's degree, not currently enrolled	1	9	21	22
% currently enrolled in graduate study	4	21	27	30
% with A or A- grades in undergraduate major	51	41	38	41
% who would prefer to attend graduate school in the South or West	44	56	62	68

^aThe reported number is those who answered the "age" and "years since bachelor's degree" questions and who took the GRE General Test between September 1980 and June 1981.

their degrees. The oldest two groups of test takers, those 30-39 and 40 or more, also represent a mixture of individuals who were late in completing their undergraduate degrees (about 40%) and those who are returning to graduate study nine years or more after completing the bachelor's degree (55% to 60%).

Most of the test takers in each age group received their undergraduate degrees from public institutions; private institutions were represented most frequently in the youngest and oldest age groups. Half or more of the test takers in each group were women, increasing to almost 7 women out of 10 in the group age 40 or more. It seems likely that the high proportion of women in the 40 and over group reflects the tendency for many women to return to study and employment after their children are grown.

There is some tendency for the older age groups to include larger percentages of persons who identify themselves as racial or ethnic minorities but, as indicated in Table 3, most of the test takers in each group (85% to 87%) were white.

More than 1 in 3 test takers in each age group indicated that their eventual graduate degree objective was the doctorate or beyond. The differences reported in Table 3 largely reflect differences in the sex compositions of the groups (data not tabled), with generally 45 percent of the men and 30 to 34 percent of the women aspiring to the doctorate. Only the group age 23-29 varied from this pattern, with somewhat lower levels of 40 percent of the men and 28 percent of the women in this group indicating interest in doctoral study.

About half of the test takers 30 years of age or older had already attended graduate school half time or more. About 1 in 5 of these older test takers said that they had already completed a master's degree; about 3 in 10 were currently enrolled in the first or second year of graduate study. In the older age groups, more men than women had attended graduate school half time or more (54% vs. 46%).

The undergraduate grades of older test takers were somewhat lower than the undergraduate grades of those age 22 or less, as indicated by smaller percentages reporting A or A- grades in courses in their undergraduate major fields. Men and women age 22 or less reported A or A- grades in about the same proportions (51%). In the other three groups, women reported higher grades than men, with about 34 percent of the men reporting A or A- grades and 44 percent of the women reporting major field grades at this level. The higher grades of younger test takers may reflect the national trend toward grade inflation, with lower grade averages characteristic of graduates in earlier years.

Test takers were asked to indicate the geographic region in which they would prefer to attend graduate school. About 33 percent of those in the youngest group selected the Northeast or East, while about 44 percent selected the South or West. For those 30 years of age or more, the percentage interested in the Northeast or East was lower (about 17 percent), while more than 60 percent said they would prefer graduate study in the South or West. There is no way to know from the data whether these preferences reflect current residency, migration plans, or wishful thinking. They do suggest, however, that universities in the South and West may have proportionately more applications for admission from older and returning students.

A comparison of the intended graduate major areas by age in 1980-81 (Table 2) with similar tabulations for 1975-76 (Hartle et al., 1983, p. 13) indicates that more than 1 out of 3 of the 1980-81 older groups anticipated graduate study in education and that at least 40 percent of those nine years or more beyond the bachelor's degree were in this field, compared to 29 percent of those age 30 or more in 1975-76. Across all age groups, the distributions of intended major areas were about the same in 1980-81 and 1975-76 in the arts, other humanities, other social sciences, and physical science. The percentages of test takers planning graduate study in the behavioral sciences were lower in 1980-81 than in 1975-76 for all age groups (down from 24% to 18% among those 22 or less and from 24% to 15% among those 30 or more). The anticipated enrollments in biological sciences also were down slightly at each age level, though the anticipated enrollments were up by one or two percentage points in the other science areas of health, applied biology, engineering, and the mathematical sciences.

In summary, as in 1975-76, most of the older test takers in 1980-81 planned to study in education, other social or behavioral sciences, or health fields (about 70% of those 30 or more compared to about 42% of those 22 or less) while the sciences attract mostly younger students (about 30% of those 22 or less vs. 12% of those 30 or more). Many of the older test takers had already completed some graduate study; on the other hand, the number of years since most recent enrollment almost certainly is higher for this group. The undergraduate grades of the older groups tended to be lower, probably due in large part to a national trend toward higher undergraduate grading scales in recent years. And 2 out of 3 of the older test takers said they would prefer to study in the southern or western regions of the country, compared to only 44 percent of the traditionally aged college graduates. These responses suggest that older graduate students differ from younger graduate students in a number of ways, even though average verbal scores are very similar across age groups.

The next section examines data from the GRE Validity Study Service files concerning the relationship of GRE scores and undergraduate grades to first-year graduate school performance for persons of different ages.

Relationship of Test Scores to First-Year Graduate Grade Averages

A search of the GRE Validity Study Service files located 170 departmental samples that included data on (a) GRE verbal and quantitative scores, (b) undergraduate grade-point averages, (c) first-year graduate grade averages, and (d) the ages of test takers at the time of first enrollment in the graduate program. Eight clusters of departmental samples were then defined according to similarity of fields; these clusters and the fields included in each of them are listed in Table 4.² Frequency distributions of the ages of students at the time of enrollment in the programs in each cluster indicated that reasonable age groupings would be age 24 or younger (ranging from 25% in the medical biological sciences to 79% in the academic physical sciences), ages 25-29 (ranging from 44% in the medical biological sciences to 18% in the academic physical sciences), ages 30-34 (ranging from 18% in the professional physical sciences to 3% in the academic physical sciences), and age 35 or older (only sufficient for use in the humanities, academic social sciences, professional social sciences, and medical biological sciences, where the proportions of students age 35 or older ranged from 17% to 7%). In addition, four individual disciplines were identified for analysis, each including from 8 percent to 19 percent of students age 35 or older at the time of first enrollment--English, psychology, education, and nursing.

The first step in the data analysis was to convert the test scores and grades within each departmental sample to standard scores with means of 50 and standard deviations of 10.

²The clusters were formed by expert judgment, taking into account likely differences between academic and professional emphases in the traditional categories of humanities, social and behavioral sciences, biological sciences, and physical and mathematical sciences. However, it is interesting to note that the clusters are very similar to those proposed by Biglan (1973), who classified academic departments along the dimensions of hard/soft, pure/applied, and life/nonlife systems. See Muffo and Langston (1981) for a recent discussion of differences between departments clustered according to Biglan's dimensions.

Table 4

Graduate Department Groupings from
GRE Validity Study Service

Cluster	GRE Dept. Code	Department Name	Number of Departments
1. Humanities	04	Linguistics	1
	14	English	16
	20	Philosophy	2
	86	History	7
			26
2. Academic Social Sciences	81	Anthropology	2
	92	Political Science	5
	93	Psychology	26
	96	Sociology	3
			36
3. Professional Social Sciences	09	Ed. Psychology	1
	85	Education	15
	90	Library Sciences	7
	94	Public Administration	5
	95	Social Work	2
	99	Guidance and Counseling	3
			33
4. Academic Biological Sciences	35	Biology	2
	37	Botany	3
	39	Entomology	1
	52	Zoology	2
			8
5. Medical Biological Sciences	43	Nursing	7
	47	Pharmacy	1
	48	Physical Therapy	1
			9
6. Mathematical Sciences	54	Applied Math	2
	72	Mathematics	6
	78	Computer Science	7
	84	Economics	11
			26
7. Academic Physical Sciences	62	Chemistry	18
	76	Physics	6
			24
8. Professional Physical Sciences	12	Architecture	2
	65	Civil Engineering	1
	66	Electrical Engineering	3
	67	Industrial Engineering	1
	69	Other Engineering	1
			8
TOTAL DEPTS.			170

This standardization of data within departments allowed the data to be combined across all departments within each cluster even though individual departments had different standards of admission or of grading. The larger pool of data was then used to address the question of whether or not the predictors (test scores and undergraduate grades) and the criterion (first-year graduate school grades) were related in similar ways for the different age groups.

Consistent with the performance of GRE test takers reported earlier, the mean GRE verbal scores of the older students (30 and over) across all 170 departments were slightly higher than the verbal scores of the younger groups, while the mean quantitative scores averaged slightly lower for the older age groups. Undergraduate grade averages were lower in the older groups with a range of standard scores from 51.35 to 46.88 across age groups for all 170 departments. There were very slight differences in the first-year graduate school grade averages in the different age groups across all 170 departments, with the highest grades earned by those age 25-29 (standard score of 50.67) and the lowest grades by those age 24 or less (standard score of 49.57). The small differences in graduate grade averages in part reflect the very narrow range of graduate school grades for almost all enrollees. For example, the 143 departments in this study that reported first-year grades on a scale from 1.0 to 4.0 had a median grade average of 3.5, and 141 of the 143 individual department averages were between 3.0 and 3.9. Though widely used because of convenience, grade averages with so little variation do not provide a very sensitive or reliable criterion for studies of the prediction of academic performance.

Table 5 presents findings for each of the four disciplines and eight field clusters: the number of departments included in each analysis, the total number of pooled first-year students in each group, the age-groups with the number of students at each age level, and correlations of each of the predictors with first-year graduate school grades within each age group. Because they are based on a large number of cases, most of the correlations may be assumed to be reliably estimated. On the other hand, the relatively small number of cases for some of the older groups suggest that some of the correlations for these groups may be relatively unstable estimates. Also, the reader should note that there were not enough students age 35 or more to include this age group in the analyses for the field clusters academic biological science (4), mathematics (6), academic physical science (7), and professional physical science (8).

Table 5

Correlation of Individual and Combined Predictors with First-Year
Graduate Grade Average by Field and Age Group

Field	No. of Depts.	Total N	Age Group	N	Correlations of FYA with: ^a				
					UGPA	GRE-V	GRE-Q	V+Q	U+V+Q
English (also in cluster 1)	16	449	LE ^b 24 25-29 30-34 GE ^c 35	243 117 53 56	28 27 11 22	21 27 34 43	27 05 02 16	29 20 22 34	36 31 22 41
Psychology (also in cluster 2)	26	990	LE 24 25-29 30-34 GE 35	451 290 146 103	23 29 22 09	20 20 13 19	21 20 16 12	23 24 17 19	31 34 26 20
Education (also in cluster 3)	15	1106	LE 24 25-29 30-34 GE 35	352 352 228 174	32 27 18 09	31 15 16 33	28 18 01 20	33 20 10 30	41 28 19 28
Nursing (also in cluster 5)	7	350	LE 24 25-29 30-34 GE 35	68 159 55 68	56 36 21 30	33 31 20 24	14 42 16 11	27 42 21 22	45 49 27 34
Field Clusters ^d									
1. Humanities	26	721	LE 24 25-29 30-34 GE 35	396 193 79 53	33 28 15 24	27 22 28 35	26 12 05 21	32 21 20 34	39 32 23 39
2. Academic Social Science	36	1265	LE 24 25-29 30-34 GE 35	602 361 181 121	23 29 23 07	23 23 22 21	22 21 20 10	26 26 24 18	33 35 31 19
3. Professional Social Science	33	1882	LE 24 25-29 30-34 GE 35	713 584 317 265	33 28 21 08	34 19 21 30	27 21 06 17	35 23 16 27	43 32 25 26
4. Academic Biological Science	8	219	LE 24 25-29 GE 30	139 61 19	27 14 31	16 25 36	20 36 21	24 39 32	33 37 40
5. Medical Biological Science	9	419	LE 24 25-29 30-34 GE 35	106 184 59 70	52 36 19 28	26 28 25 25	23 36 19 18	30 27 26 26	47 46 29 36
6. Mathematical Science	26	695	LE 24 25-29 GE 30	454 174 67	28 37 19	12 01 25	24 31 24	23 20 33	32 34 38
7. Academic Physical Science	24	751	LE 24 25-29 GE 30	590 135 26	32 32 -08	04 16 -10	23 07 39	17 16 15	29 29 08
8. Professional Physical Science	8	500	LE 24 25-29 GE 30	229 161 110	23 31 28	21 15 23	36 35 43	35 31 40	39 39 45
Totals for all departments	170	6452	LE 24 25-29 30-34 GE 35	3232 1853 805 562	30 30 21 13	21 18 22 27	25 23 15 18	28 25 22 26	36 35 29 28

^aDecimal points have been omitted

^bLess than or equal to

^cGreater than or equal to

^dSee list of fields in each field cluster in Table 4.

Looking first at the correlations between each of the individual predictors and first-year graduate school grades, the data in Table 5 indicate that the relationship for each set of variables in every discipline or field cluster and every age group generally is positive. The correlations between first-year grades and both GRE verbal and quantitative scores average around .20 in all of the fields and age groups, with fluctuations that do not appear to show any consistent relationship to age. The correlations between undergraduate grades and first-year average do, however, show a consistent pattern in relation to age, with higher correlations for the younger age groups in almost every field. Whether because of grade inflation, recency of study, or other reasons, the data suggest that undergraduate grades are not as useful in predicting the graduate school performance of older applicants as in predicting the performance of younger students coming directly from undergraduate study. These results are consistent with earlier research on older college applicants (American College Testing Program, 1973.)

Regressions were computed to obtain the best linear combination of the verbal and quantitative scores and of test scores plus undergraduate grades for each of the four disciplines and eight field clusters in Table 5. For the two test scores as predictors, the median multiple R with first-year average was .28 with a range from .20 to .38 across the 12 groups. The best fitting combination of three predictors produced a median multiple R of .35 with a range from .31 to .43. These validity coefficients, based on group sizes ranging from 219 to 1,882, probably are quite stable and are consistent with GRE validities reported by Wilson (1982) and Burton and Turner (1983). However, in estimating separate validity coefficients for the various age groups, the numbers are much smaller and the estimated beta weights correspondingly less stable. Therefore, the more stable but also more conservative method of giving each predictor an equal weight in combinations of two or three predictors was used for the data presented in the last two columns of Table 5. (See Wainer, 1976 and 1978, for a discussion of the relative merits of best fitting linear weights vs. unit weights in regression analyses.) In some cases, these equally weighted linear composites resulted in a correlation with the criterion that is slightly lower than the highest zero-order predictor-criterion correlation that is reported in the first three columns of correlations in Table 5. Since the largest zero-order predictor-criterion correlation should set the lower limit for the optimal combination of predictor variables, these results suggest that the individual predictors may be more useful than combinations of predictors in making admission decisions for graduate students of various ages.

The predictor-criterion relationships for each age group across the eight field clusters in Table 5 are presented graphically in Figure 6. The relationship between verbal scores and first-year average (upper left of Figure 6) is about the same in each age group, especially in the humanities and the social sciences; almost all of the correlations that are below .20 are in the physical sciences. Similarly, the relationship between quantitative scores and first-year average (upper right) is about the same for each age group, particularly when one notes that there are no groups age 35 or more in four science fields that attach particular importance to quantitative scores and that all of the correlations above .30 are in science departments.

As noted earlier, there is a declining relationship between undergraduate grades and first-year average across age groups (lower left of Figure 6). Finally, in the lower right, the equal combination of three variables to predict first-year average works slightly less well for the older two age groups relative to the younger two age groups, probably because of the declining utility of undergraduate grades. Basically, however, the diagrams support the general conclusion that there are no sizable differences in the coefficients of predictive validity for the GRE General Test scores of persons who begin graduate study at various ages.

An additional question might be asked about GRE test scores and undergraduate grades in relation to first-year graduate grade averages. Though the level of predictability is about the same for the different age groups, are the predicted first-year grade averages equally accurate, or are the grades of some age groups more or less likely to be overpredicted or underpredicted? Given the similarity of the validity coefficients and the restricted range of the first-year grades as the criterion, it did not seem likely that significant differences would be found. However, an exploratory analysis was carried out using the 1,106 first-year graduate students in education. In this analysis the first-year graduate grade average was predicted from the verbal and quantitative scores and undergraduate grades with beta weights and with unit weights. The regression equation for the total group was then applied separately to each of the four age groups, and the standardized predicted grade averages were compared to the standardized earned grade averages. The results of the analysis are presented in Table 6. The obtained first-year grades of the older students were underpredicted slightly, due largely to the fact that their undergraduate grades were lower but their first-year graduate school grades were slightly higher than the same measures for the younger groups. Based on the mean levels of the various

Figure 6

Summary of Correlations of Predictors with
First-Year Graduate School Grades in
Eight Academic Clusters of Departments,
by Student Age at Entrance

GRE-V with FYA				Correlations	GRE-Q with FYA			
Age Groups					Age Groups			
<u><24</u>	25-29	30-34	<u>>35</u>		<u><24</u>	25-29	30-34	<u>>35</u>
				.50 - .54				
				.45 - .49				
				.40 - .44				
		o	o	.35 - .39	o	ooo		o
o			o	.30 - .34		o		
oo	oo	ooo	o	.25 - .29	oo			
oo	oo	ooo	o	.20 - .24	oooooo	oo	ooo	o
o	ooo			.15 - .19			o	oo
o				.10 - .14		o		o
				.05 - .09		o	oo	
o	o			.00 - .04				
				-.05 - .01				
		o		-.10 - .06				

Undergraduate GPA with FYA					V + Q + U with FYA			
Age Groups					Age Groups			
<24	25-29	30-34	>35		<24	25-29	30-34	>35
o				.50 - .54				
				.45 - .49	o	o	o	
				.40 - .44	o		o	
	oo			.35 - .39	oo	oooo	o	oo
ooo	oo	o		.30 - .34	ooo	oo	o	
oo	ooo	o	o	.25 - .29	o	o	oo	o
oo		oo	o	.20 - .24			o	
		ooo		.15 - .19				o
	o			.10 - .14				
			oo	.05 - .09			o	
				.00 - .04				
		o		-.05 - .01				

Table 6

Predicted vs. Observed First-Year Graduate Grade Averages
by Age Groups in 15 Departments of Education (N=1,106)

Age Groups	N	Correlation of predicted FYA using beta weights and unit weights	FYA (in standard score units)	(+) (-) Over- or under-prediction (in S.D. units)	
				beta weights	unit weights
<u><</u> 24	352	.98	48.92	+.18	+.18
25-29	352	.97	50.36	+.07	+.08
30-34	228	.96	50.68	-.25	-.22
<u>></u> 35	174	.98	50.63	-.15	-.21

variables, it seems likely that frequently the graduate school performance of older applicants is slightly underpredicted from a combination of test scores and undergraduate grades, but these results for 15 education departments do not suggest that the variation across age groups is very great. Predicted and observed grades were not compared for other disciplines or field clusters in this study.

Summary and Conclusions

Having examined the graduate study plans and test scores of about 200,000 GRE test takers in each of two years, 1975-76 and 1980-81, what conclusions can we draw that are relevant to the graduate admission of older and returning students? The following points summarize the results of the study:

1. The number of GRE test takers age 30 or older has increased (from 15 percent of the total in 1975-76 to 21 percent in 1980-81), accounting for more than 40,000 of the test takers in 1980-81. Though GRE test takers represent only some of the students applying for graduate admission in any given year, the increasing number of older test takers undoubtedly parallels an increasing number of older applicants to graduate education. Questions concerning the admission of older students, and attention to the needs of these students, face almost every graduate school in the nation.
2. Almost 2 out of 3 GRE test takers age 30 or older expect to pursue graduate study in education or another of the social and behavioral sciences; these fields attract about 1 out of 3 graduates age 22 or less. The pattern is reversed in the sciences, with twice the proportion of younger test takers indicating interest in these fields. The overall pattern of graduate study plans appears to be fairly stable; the two years 1975-76 and 1980-81 are very similar in the distribution of fields by age groups. The schools or departments that must deal with the largest number of applicants over 30 years of age include education, psychology, nursing, business, social work, computer science, library science, English, and religious studies.
3. The average GRE verbal score of test takers age 30 or older is about the same as the average verbal score of 20-22 year olds planning graduate study in the same

field, and the verbal score appears to predict first-year graduate school grades with approximately equal accuracy for both age groups. There is no support for the notion that verbal scores should be interpreted differently when making admission decisions for older applicants. Within a given field of study, GRE verbal scores appear to be similarly useful for applicants regardless of age.

4. The average quantitative score is lower for test takers age 30 or older than for those age 20-22 in almost every field, probably due to a lack of continuing practice in quantitative skills for most American adults. However, an examination of predictive validity indicates that the relationship between quantitative scores and first-year graduate school grades is similar across age groups, especially in the scientific and mathematical fields that are most concerned with the assessment of quantitative ability. These results suggest that the quantitative measure continues to be appropriate for use with older applicants if it is directly relevant to the program of study that will be undertaken and if the applicants have had a reasonable opportunity to maintain quantitative skills in the period of time since previous study.
5. The average self-reported undergraduate grades of graduate applicants age 30 or more are lower than the average undergraduate grades reported by more recent graduates, and there is less relationship between undergraduate and graduate school grades for older than for younger applicants. These results suggest that test scores may be increasingly useful in predicting the graduate school performance of older applicants as the time interval between undergraduate and graduate study increases and the usefulness of the earlier performance record declines. It should be noted, however, that more recent performance records, such as grades in graduate study already completed, were not examined in this study; almost certainly, recent graduate school grades would demonstrate a closer relationship to future performance than do either test scores or undergraduate grades.
6. In general, older students defined by years since the baccalaureate, who completed undergraduate degrees in their early 20s and are now contemplating return to graduate study, average higher verbal and quantitative scores than do those of similar ages who delayed or

interrupted their undergraduate studies. It is not safe to assume that a candidate will do poorly on the GRE General Test simply because she or he has been away from formal academic study for a number of years.

7. The grades earned by graduate students are predicted only partially by the traditional admission criteria of test scores and undergraduate grades, regardless of the ages of the graduate students. Other characteristics and experiences of applicants should be considered when making all admissions decisions; it is especially important to consider factors in addition to test scores and undergraduate grades when deciding upon the admission of an older applicant who is returning to graduate study after several years away from academe.

The studies in both 1975-76 and 1980-81 indicate a great deal of self-selection among the men and women who choose to undertake graduate study in their 30s or 40s or beyond as well as among those who return after many years away from the activities and pressures of academic study. Many are in occupations that place a high premium on higher education, such as teaching, professional fields, and administrative management. For the most part, they have more flexibility in making the decision of whether or not to continue studying than do young people without work experience, and they are less likely to continue in academe unless they find the experience enjoyable and rewarding. Also, they have more maturity and experience to apply in selecting a graduate program that is appropriate to their needs and abilities, including the selection of a program that will make academic demands consistent with their readiness and motivation to perform.

Sometimes both candidates and graduate programs wonder whether it is appropriate to ask prospective returning students to take the GRE General Test when several years have elapsed since the candidates completed their undergraduate degrees. Recent comments about the GRE test-taking process that were obtained from more than 140 men and women who were repeating the test after the passage of nine years or more help shed some light on this question.³ Consistent with the data in this report on obtained verbal and quantitative scores for persons of various ages, most of these older test repeaters expected that their new verbal scores would remain about the

³From a study in progress on factors related to score changes among GRE test repeaters (M. J. Clark & D. Powers) funded by the ETS Program Research Planning Council.

same or be higher and that their new quantitative scores would be somewhat lower. The following sample of comments on possible reasons for any differences between the earlier and new scores suggest that the older test takers are quite realistic about the process:

- Ten more years have elapsed since I last took any algebra or geometry classes and those skills have deteriorated.
- Examinees are bound to do better when taking the test while still involved in undergraduate or graduate work rather than 15 years later, particularly in applications like math that are not used on the job.
- I expect to do better because of employment and graduate study experiences.
- Maturity and advanced education should account for an increase in scores.
- I'm 12 years older, and now I really want to go to graduate school.
- It is more important to get higher scores this time so I studied more.
- The ability to take tests diminishes significantly with the passage of time. Therefore, test scores are likely to go down after several years away from the "test-taking game" unless one practices. I did not have enough time to practice.
- I think that my verbal scores will be higher because of my teaching and graduate work, but my quantitative scores will probably be lower since I have had no math course since 1967 and since I do not routinely use math in my work.
- I knew more on this test than I did as an undergraduate, yet I felt I worked slower and comprehended slower.
- I might do better due to my graduate work and years of employment plus a great deal of maturity in those 10 years.

Almost all of these GRE test repeaters were taking the test again because a graduate school requested more recent scores, and preliminary analyses suggest that their expectations about

a score increase or decrease was the best predictor of an actual increase or decrease in their scores. These self-reports of older test takers are quite consistent with the reported GRE test scores by age groups in the earlier sections of this report as well as with the self-selected nature of older applicants to graduate study.

References

- American College Testing Program. (1983) Assessing students on the way to college: Technical report volume one. Iowa City, Iowa: ACT Publications.
- Baird, L. L. (1982) An examination of the graduate study application and enrollment decisions of GRE candidates. GRE Board Research Report No. 79-11R. Princeton, NJ: Educational Testing Service.
- Biglan, A. (1973) The characteristics of subject matter in different areas. Journal of Applied Psychology, 57, 195-203.
- Burton, N. W., & Turner, N. J. (1983) Effectiveness of the Graduate Record Examinations for predicting first-year grades. 1981-82 summary report of the GRE Validity Study Service. Princeton, NJ: Educational Testing Service.
- Goodison, M. B. (1982) A summary of data collected from Graduate Record Examinations test takers during 1980-81. GRE Data Summary Report #6. Princeton, NJ: Educational Testing Service.
- Hartle, T., Baratz, J., & Clark, M. J. (1983) Older students and the GRE Aptitude Test. GRE Board Research Report No. 76-13R. Princeton, NJ: Educational Testing Service.
- Muffo, J. A., & Langston, I. W. (1981) Biglan's dimensions: Are the perceptions empirically based? Research in Higher Education, 15, 141-159.
- Oltman, P. K., & Hartnett, R. T. (1983) The role of the GRE General and Subject Tests in graduate program admission. Unpublished GRE Board Research Draft Report No. 81-8.
- Wainer, H. (1976) Estimating coefficients in linear models: It don't make no never mind. Psychological Bulletin, 83, 213-217.
- Wainer, H. (1978) On the sensitivity of regression and regressors. Psychological Bulletin, 85, 267-273.
- Wilson, K. M. (1982) A study of the validity of the restructured GRE Aptitude Test for predicting first-year performance in graduate study. GRE Board Research Report 78-6R and ETS Research Report 82-34. Princeton, NJ: Educational Testing Service.

Appendix A

Background Information Questions

Your answers to these questions will be used for research and, if you are taking the GRE, in group statistics describing GRE student populations. In both of these uses, individual responses will not be communicated to any institution. In addition, your responses will not affect your scores in any way. If you are registering for the Minority Graduate Student Locator Service, your individual responses to questions in the shaded areas below may be reported to one or more institutions.

If you are completing the registration form to sign up for the tests only, we encourage you to answer all questions, particularly questions A through N and U through X. (You may, however, omit any you do not wish to answer.) If you are registering for the Locator Service, however, it is essential that you answer all questions in the shaded areas, since the Locator Service will not be able to serve you unless it has all the information provided by your answers to those questions.

- * A. Have you previously taken one or more GRE tests?
 - (1) No
 - (2) Yes—took the test(s) on or prior to September 30, 1979
 - (3) Yes—took the test(s) more recently than September 30, 1979

If you are registering for the Locator Service, be sure to answer at least the questions in shaded areas. If you are not registering for the Locator Service, and your answer to question A is (3), and your responses to the rest of the questions would be the same as they were before, you need not answer the questions again. If your responses to any of the rest of the questions would be different, please respond again to all of them.

- * B. Are you a citizen of the United States?
 - (1) Yes (2) No

Omit questions C and D if you are not a United States citizen

- * C. In the State Code List on page 44 find the code number for the state you consider your permanent residence. Blacken the spaces for that state's code number.
- * D. How do you describe yourself?
 - (1) American Indian, Eskimo, or Aleut
 - (2) Black or Afro-American or Negro
 - (3) Mexican American or Chicano
 - (4) Oriental or Asian American
 - (5) Puerto Rican
 - (6) Other Hispanic or Latin American
 - (7) White
 - (8) Other
- * E. Do you communicate better in English than in any other language?
 - (1) Yes (2) No
- * F. What is your best estimate of the total student enrollment at the school from which you received or will receive your bachelor's degree?
 - (1) Fewer than 1,000
 - (2) 1,000-4,999
 - (3) 5,000-9,999
 - (4) 10,000-19,999
 - (5) 20,000 or more
- * G. Which of the following best describes your undergraduate institution?
 - (1) Public
 - (2) Private—no church affiliation
 - (3) Private—church affiliation
- * H. In what calendar year did you receive or do you expect to receive your bachelor's degree?

(Please blacken the spaces on your registration form corresponding to the last two digits of the year.)
- * I. Referring to the Major Field Code List on page 44, find your undergraduate major field of study. Blacken the spaces for that field's code number.

- * J. What is your eventual graduate degree objective?
 - (1) Nondegree study
 - (2) Master's (M.A., M.S., M.Ed., etc.)
 - (3) Intermediate (such as Specialist)
 - (4) Doctorate (Ph.D., Ed.D., etc.)
 - (5) Postdoctoral study
- * K. Referring to the Major Field Code List on page 44, find the field in which you plan to do your graduate work. Blacken the spaces for that field's code number. If you are undecided, use the following code:
 - 00 Undecided
- * L. If you have a second choice of graduate major field, enter its two-digit code number in the appropriate spaces, following the instructions for question K. If you have no second choice, leave this question blank.
- * M. Which of the following best describes the graduate institution you most recently attended or currently attend on at least a half-time basis?
 - (1) I have never attended graduate school or have attended graduate school on less than a half-time basis only.
 - (2) Public
 - (3) Private—no church affiliation
 - (4) Private—church affiliation
- * N. In what calendar year did you last attend graduate school on at least a half-term basis?

Blacken the spaces on your registration form corresponding to the last two digits of the year; if you have not attended graduate school, use the following code:

 - 00 I have never attended graduate school or have attended on less than a half-time basis only.
- * O. In courses in your undergraduate major field only, what grade average have you received so far? (If your college does not use letter grades, please mark the letter grade that is the closest equivalent to your grade average.)
 - (1) D or lower (2) C- (3) C (4) B- (5) B (6) A- (7) A
- * P. Considering only your last two college years, approximately what overall grade average have you received? (If your college does not use letter grades, please mark the letter grade that is the closest equivalent to your grade average.)
 - (1) D or lower (2) C- (3) C (4) B- (5) B (6) A- (7) A
- * Q. Is there any one geographic region in which you would prefer to attend graduate school? (Select one only.)
 - (1) New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont)
 - (2) Mid-Atlantic (Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania)
 - (3) South (Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia)
 - (4) Midwest (Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin)
 - (5) Southwest (Arizona, California, Nevada, New Mexico, Oklahoma, Texas)
 - (6) West (Alaska, Colorado, Hawaii, Idaho, Montana, Oregon, Utah, Washington, Wyoming)
 - (7) Any region would be acceptable
- * R. About how many hours per week did you spend working for wages during your most recent school year?
 - (1) 0 (2) 1-5 (3) 6-10 (4) 11-20 (5) More than 20
- * S. About how many hours per week did you spend in community service activities during your most recent school year?
 - (1) 0 (2) 1-5 (3) 6-10 (4) 11-20 (5) More than 20

*Questions on which data in this report are based.

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7. In which one of the following achievements have you received your most important honor, award, prize, or other recognition? (Select one only.)

- (1) Student government or organization
- (2) Professional—an award or prize for fieldwork or publication of a scholarly article or book
- (3) Community service—election or appointment to a community service unit, activity, or group
- (4) Literary—editing the college paper, yearbook, or literary magazine or having a poem, story, or article published in a public paper or magazine
- (5) Artistic—a high rating in a music contest, a part in a play, opera, or show, or an award in an art competition
- (6) Scientific—an award or recognition in a science competition
- (7) Athletic—a letter in athletics
- (8) None of the above categories

★ U. What was the highest level of education attained by your father?

- (1) Did not graduate from high school
- (2) High school graduate
- (3) Beyond high school but did not graduate from a four-year college
- (4) Graduate of a four-year college
- (5) Beyond college but did not receive a graduate or professional degree
- (6) Graduate or professional degree

★ V. What was the highest level of education attained by your mother?

- (1) Did not graduate from high school
- (2) High school graduate
- (3) Beyond high school but did not graduate from a four-year college
- (4) Graduate of a four-year college
- (5) Beyond college but did not receive a graduate or professional degree
- (6) Graduate or professional degree

★ W. What was the approximate average annual income of your family during the time when you were in high school?

- (1) Less than \$6,300
- (2) \$6,300 to \$15,000
- (3) \$15,000 to \$25,000
- (4) More than \$25,000

★ X. Which of the following best describes the location of the high school you attended?

- (1) Large city
- (2) Suburb of a large city, metropolitan area
- (3) Other city or town
- (4) Farming community or other rural area

State Code List

01 Alaska	08 Delaware	14 Illinois	21 Maryland	28 Nebraska	34 North Carolina	40 Rhode Island	47 Virginia
02 Alaska	09 District of Columbia	15 Indiana	22 Massachusetts	29 Nevada	35 North Dakota	41 South Carolina	55 Virgin Islands
03 Arizona	10 Florida	16 Iowa	23 Michigan	30 New Hampshire	36 Ohio	42 South Dakota	48 Washington
04 Arkansas	11 Georgia	17 Kansas	24 Minnesota	31 New Jersey	37 Oklahoma	43 Tennessee	49 West Virginia
05 California	12 Hawaii	18 Kentucky	25 Mississippi	32 New Mexico	38 Oregon	44 Texas	50 Wisconsin
06 Colorado	13 Idaho	19 Louisiana	26 Missouri	33 New York	39 Pennsylvania	45 Utah	51 Wyoming
07 Connecticut		20 Maine	27 Montana		46 Puerto Rico	46 Vermont	

Department Code List (for Item 13)—Major Field Code List (for Questions I and K)

HUMANITIES	10 Other Foreign Languages	81 Physical Education	40 Forestry	PHYSICAL SCIENCES
11 Archaeology	98 Other Humanities	82 Political Science	06 Genetics	54 Applied Mathematics
12 Architecture		83 Psychology	41 Home Economics	81 Astronomy
36 Art History	SOCIAL SCIENCES	84 Public Administration	25 Health and Health Services	82 Chemistry
13 Classical Languages	27 American Studies	55 Slave Studies	Administration	78 Computer Science
29 Comparative Literature	81 Anthropology	79 Social Psychology	42 Medicine	63 Engineering Aeronautical
53 Dramatic Arts	82 Business and Commerce	95 Social Work	07 Microbiology	64 Engineering Chemical
14 English	83 Communications	86 Sociology	43 Nursing	65 Engineering Civil
29 Far Eastern Languages and Literature	84 Economics	87 Urban Development (regional planning)	77 Nutrition	66 Engineering Electrical
15 Fine Arts, Art, Design	85 Education (including M.A. in Teaching)	80 Other Social Sciences	44 Occupational Therapy	67 Engineering Industrial
16 French	81 Educational Administration	BIOLOGICAL SCIENCES	45 Optometry	68 Engineering Mechanical
17 German	88 Educational Psychology	31 Agriculture	46 Osteopathy	69 Engineering Other
58 Italian	70 Geography	32 Anatomy	08 Parasitology	71 Geology
04 Linguistics	92 Government	85 Audiology	56 Pathology	72 Mathematics
18 Music	99 Guidance and Counseling	33 Bacteriology	03 Pharmacology	73 Metallurgy
57 Near Eastern Languages and Literature	86 History	34 Biochemistry	47 Pharmacy	74 Mining
20 Philosophy	87 Industrial Relations and Personnel	35 Botany	48 Physical Therapy	75 Oceanography
21 Religious Studies or Religion	88 International Relations	36 Botany	49 Physiology	76 Physics
22 Russian	19 Journalism	37 Botany	50 Public Health	59 Statistics
23 Spanish	90 Law	38 Dentistry	51 Veterinary Medicine	60 Other Physical Sciences
24 Speech	90 Library Science	39 Entomology	52 Zoology	
			30 Other Biological Sciences	81 ANY DEPARTMENT NOT LISTED

GRE Registration Questions:

★

6. DATE OF BIRTH		
Month	Day	Year
☐ Jan.		
☐ Feb.		
☐ Mar.	0	0
☐ Apr.	1	1
☐ May	2	2
☐ June	3	3
☐ July	4	4
☐ Aug.	5	5
☐ Sept.	6	6
☐ Oct.	7	7
☐ Nov.	8	8
☐ Dec.	9	9

★

7. SEX	
☐ Male	☐ Female

*Questions on which data in this report are based.

Appendix B

Groups of Disciplines Used in "Major Area" Tables

Humanities:

Arts=Dramatic Art	Other Humanities=Archaeology	Architecture
Music	Art History	Classical Lang.
Fine Arts	Comparative Lit.	English
	Far Eastern Lang.	French
	German	Italian
	Linguistics	Near Eastern Lang.
	Philosophy	Religion
	Russian	Spanish
	Speech	Other Foreign Lang.
	Other Humanities	

Social Sciences:

Education=Education	Other Social Sciences=Business
Educational Admin.	Communications
Educational Psych.	Industrial Relations
Guidance	Journalism
Physical Education	Law
	Library Science
	Public Administration
	Social Work
Behavioral Sciences=American Studies	Anthropology
Economics	Geography
Government	History
International Rel.	Psychology
Slavic Study	Social Psychology
Sociology	Urban Development
Other Social Sciences	Political Science

Biological Sciences:

Biosciences=Biochemistry	Health=Anatomy	Optometry
Biology	Audiology	Osteopathy
Biophysics	Bacteriology	Parasitology
Botany	Dentistry	Pathology
Genetics	Health Admin.	Pharmacology
Microbiology	Medicine	Pharmacy
Physiology	Nursing	Physical Therapy
Zoology	Nutrition	Public Health
Other Biological Sci.	Occupational Therapy	
Other Applied Biological Sciences=Agriculture	Entomology	
	Forestry	
	Home Economics	
	Veterinary Medicine	

Physical Sciences:

Engineering=Aeronautical Eng.	Math. Science=Applied Mathematics
Chemical Eng.	Computer Science
Civil Eng.	Mathematics
Electrical Eng.	Statistics
Industrial Eng.	
Mechanical Eng.	Physical Science=Astronomy
Other Eng.	Chemistry
Metallurgy	Physics
Mining	Geology
	Oceanography
	Other Physical Sciences

Appendix C

The following tables are included as supplemental information:

- Table 2 -- Rank Order of Intended Graduate Major for Candidates
Age 22 or Less
- Table 3 -- Rank Order of Intended Graduate Major Candidates
Age 23-29
- Table 4 -- Rank Order of Intended Graduate Major for Candidates
Age 30-39
- Table 5 -- Rank Order of Intended Graduate Major for Candidates
Age 40 or More
- Table 6 -- Rank Order of Intended Graduate Major for Males
- Table 7 -- Rank Order of Intended Graduate Major for Females
- Table 8 -- Rank Order of Intended Graduate Major for Candidates
Who Received Bachelor's Degree 1972-1966
- Table 9 -- Rank Order of Intended Graduate Major for Candidates
Who Received Bachelor's Degree 1965 or Earlier
- Table 10 -- Rank Order of Intended Graduate Major for Males
Age 22 or Less
- Table 11 -- Rank Order of Intended Graduate Major for Females
Age 22 or Less
- Table 12 -- Rank Order of Intended Graduate Major for Males Age 23-29
- Table 13 -- Rank Order of Intended Graduate Major for Females Age 23-29
- Table 14 -- Rank Order of Intended Graduate Major for Males Age 30-39
- Table 15 -- Rank Order of Intended Graduate Major for Females Age 30-39
- Table 16 -- Rank Order of Intended Graduate Major for Males Age 40 or More
- Table 17 -- Rank Order of Intended Graduate Major for Females
Age 40 or More
- Table 18 -- Rank Order of Intended Graduate Major for Males
Who Received Bachelor's Degree 1972-1966

Appendix C (cont.)

The following tables are included as supplemental information:

Table 19 -- Rank Order of Intended Graduate Major for Females
Who Received Bachelor's Degree, 1972-1966

Table 20 -- Rank Order of Intended Graduate Major for Males
Who Received Bachelor's Degree 1965 or Earlier

Table 21 -- Rank Order of Intended Graduate Major for Females
Who Received Bachelor's Degree 1965 or Earlier

Table 22 -- Rank Order of Intended Graduate Major for Total Sample

TABLE 2. RANK ORDER OF INTENDED GRADUATE MAJOR FOR CANDIDATES AGE 22 OR LESS

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
PSYCHOLOGY	6411	8.40	497	514	ART HISTORY	400	0.52	541	503
EDUCATION	3351	4.39	439	471	ANTHROPOLOGY	399	0.52	544	530
COMPUTER SCI	1768	2.32	507	664	EDUC ADMIN	392	0.51	431	473
CHEMISTRY	1752	2.29	523	646	HOME ECONOMICS	392	0.51	419	453
ENGLISH	1750	2.29	578	517	EDUC PSYCH	334	0.44	466	496
ELECTRICAL ENG	1733	2.27	482	688	OTHER PHYS SCI	330	0.43	514	651
VET MEDICINE	1700	2.23	494	588	PHILOSOPHY	323	0.42	596	576
BUSINESS/CMRCE	1698	2.22	463	548	FORESTRY	308	0.40	504	592
SOCIAL WORK	1616	2.12	443	449	PHARMACOLOGY	300	0.39	517	610
GEOLOGY	1501	1.97	516	603	GEOGRAPHY	282	0.37	493	543
ECONOMICS	1474	1.93	522	615	INDUSTRIAL ENG	269	0.35	431	649
INTERNAT REL	1385	1.81	546	540	AERONAUT ENG	259	0.34	498	681
OTHER BIOL SCI	1372	1.80	507	572	BOTANY	237	0.31	530	580
BIOLOGY	1292	1.69	507	572	OTH HUMANITIES	227	0.30	530	513
PUBLIC ADMIN	1259	1.65	470	482	STATISTICS	203	0.27	484	654
MUSIC	1235	1.62	491	512	APPLIED MATH	197	0.26	540	699
RELIGIOUS STD	1211	1.59	512	528	OCEANOGRAPHY	192	0.25	520	618
PHYSICS	1126	1.47	562	702	SPANISH	192	0.25	480	477
GUIDANCE/COUNS	1086	1.42	440	462	PATHOLOGY	191	0.25	462	509
COMMUNICATIONS	1084	1.42	475	477	LINGUISTICS	172	0.23	547	564
POLITICAL SCI	1078	1.41	521	525	FRENCH	162	0.21	539	520
HISTORY	1051	1.38	551	512	ARCHAEOLOGY	162	0.21	570	537
OTHER ENGIN	974	1.28	510	666	PHARMACY	153	0.20	476	591
BIOCHEMISTRY	880	1.15	532	628	SOCIAL PSYCH	150	0.20	465	482
MECHANICAL ENG	879	1.15	478	680	COMPARE LIT	130	0.17	591	517
CHEMICAL ENG	869	1.14	515	694	OCCUP THERAPY	129	0.17	462	499
ARCHITECTURE	866	1.13	501	587	ANATOMY	122	0.16	486	561
SPEECH	848	1.11	447	456	ASTRONOMY	120	0.16	585	697
PHYSICAL ED	832	1.09	407	472	NEAR EAST LANG	114	0.15	516	550
MICROBIOLOGY	828	1.08	490	563	ENTOMOLOGY	105	0.14	514	573
NURSING	819	1.07	482	503	AMER STUDIES	89	0.12	549	516
AGRICULTURE	803	1.05	463	552	CLASSICAL LANG	85	0.11	623	581
CIVIL ENG	769	1.01	438	663	GERMAN	81	0.11	547	554
OTHER SOC SCI	752	0.98	472	492	BIOPHYSICS	73	0.10	594	672
JOURNALISM	725	0.95	520	497	METALLURGY	65	0.09	505	672
MATHEMATICS	719	0.94	528	688	BACTERIOLOGY	65	0.09	512	558
NUTRITION	687	0.90	465	523	RUSSIAN	61	0.08	561	553
PUBLIC HEALTH	678	0.89	492	540	FAR EAST LANG	60	0.08	561	547
URBAN DEVELOP	671	0.88	492	520	DENTISTRY	55	0.07	445	509
LIBRARY SCI	568	0.74	527	487	SLAVIC STUDIES	50	0.07	567	582
PHYS THERAPY	567	0.74	469	533	PARASITOLOGY	26	0.03	496	568
SOCIOLOGY	566	0.74	467	480	ITALIAN	24	0.03	513	493
FINE ARTS	561	0.73	475	474	MINING	22	0.03	481	622
HOSPITAL ADMIN	560	0.73	469	519	OTHER FOR LANG	20	0.03	562	549
DRAMATIC ARTS	531	0.70	528	508	OPTOMETRY	15	0.02	500	583
ZOOLOGY	491	0.64	532	586	OSTEOPATHY	10	0.01	491	601
INDUSTRIAL REL	468	0.61	472	505					
GENETICS	466	0.61	538	612					
LAW	462	0.61	498	510					
MEDICINE	431	0.56	512	602	NOT IN ABOVE	1915	2.51	460	498
PHYSIOLOGY	425	0.56	503	570	UNDECIDED	8639	11.31	497	541
AUDIOLOGY	422	0.55	445	474	TOTAL	76351	100.00	495	550
					NO RESPONSE	1486	1.91*	503	554

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 3. RANK ORDER OF INTENDED GRADUATE MAJOR FOR CANDIDATES AGE 23 - 29

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	7774	9.79	438	449	PHYSIOLOGY	346	0.44	486	550
PSYCHOLOGY	5019	6.32	512	504	PHILOSOPHY	338	0.43	581	556
NURSING	3693	4.52	487	484	GEOGRAPHY	337	0.42	492	525
COMPUTER SCI	2358	2.97	453	630	OTH HUMANITIES	312	0.39	528	504
GUIDANCE/COUNS	1879	2.37	443	441	OTHER PHYS SCI	301	0.38	492	611
BUSINESS/CMRCE	1847	2.33	453	539	PHARMACOLOGY	295	0.37	486	579
RELIGIOUS STD	1743	2.19	519	513	ART HISTORY	294	0.37	532	481
PUBLIC ADMIN	1681	2.12	462	474	LINGUISTICS	282	0.36	503	533
ENGLISH	1655	2.08	567	491	PHARMACY	281	0.35	446	560
SOCIAL WORK	1635	2.06	464	438	BOTANY	279	0.35	529	570
ELECTRICAL ENG	1596	2.01	423	654	DENTISTRY	265	0.33	485	590
ECONOMICS	1492	1.88	457	582	FORESTRY	262	0.33	509	570
EDUC ADMIN	1486	1.87	431	458	GENETICS	253	0.32	521	587
PHYSICAL ED	1305	1.64	410	452	MEDICINE	239	0.30	501	571
GEOLOGY	1245	1.57	496	572	LAW	222	0.28	470	490
MUSIC	1228	1.55	492	492	AUDIOLOGY	203	0.26	468	466
PUBLIC HEALTH	1152	1.45	492	510	ENTOMOLOGY	194	0.24	496	545
OTHER BIOL SCI	1142	1.44	506	559	SPANISH	187	0.24	464	449
ARCHITECTURE	1091	1.37	480	562	PATHOLOGY	173	0.22	472	525
CIVIL ENG	1071	1.35	392	628	OCCUP THERAPY	168	0.21	480	474
LIBRARY SCI	1040	1.31	524	466	STATISTICS	151	0.19	431	651
BIOLOGY	1009	1.27	502	550	AERONAUT ENG	149	0.19	455	637
HISTORY	976	1.23	537	496	ARCHAEOLOGY	147	0.19	546	512
POLITICAL SCI	962	1.21	479	493	SOCIAL PSYCH	142	0.18	486	495
AGRICULTURE	957	1.21	436	518	FRENCH	141	0.18	524	495
MECHANICAL ENG	940	1.18	422	656	COMPARE LIT	139	0.18	558	508
COMMUNICATIONS	912	1.15	470	467	OCEANOGRAPHY	133	0.17	495	612
OTHER SOC SCI	908	1.14	473	478	APPLIED MATH	104	0.13	480	651
FINE ARTS	871	1.10	471	455	METALLURGY	102	0.13	400	644
OTHER ENGIN	871	1.10	447	624	ANATOMY	99	0.12	493	540
INTERNAT REL	823	1.04	520	519	NEAR EAST LANG	96	0.12	516	524
URBAN DEVELOP	808	1.02	482	510	AMER STUDIES	93	0.12	545	517
CHEMISTRY	795	1.00	460	604	GERMAN	83	0.10	542	525
JOURNALISM	789	0.99	533	492	FAR EAST LANG	60	0.08	529	532
VET MEDICINE	764	0.96	507	571	BACTERIOLOGY	51	0.06	470	528
HOSPITAL ADMIN	712	0.90	466	495	CLASSICAL LANG	49	0.06	633	548
NUTRITION	703	0.89	458	500	ASTRONOMY	48	0.06	487	638
EDUC PSYCH	675	0.85	467	469	PARASITOLOGY	37	0.05	491	545
MICROBIOLOGY	592	0.75	467	539	SLAVIC STUDIES	36	0.05	566	549
CHEMICAL ENG	563	0.71	425	644	RUSSIAN	35	0.04	552	545
PHYSICS	553	0.70	482	672	BIOPHYSICS	32	0.04	537	606
SOCIOLOGY	553	0.70	459	469	MINING	28	0.04	424	629
DRAMATIC ARTS	536	0.67	516	483	ITALIAN	24	0.03	442	470
INDUSTRIAL REL	491	0.62	473	491	OTHER FOR LANG	22	0.03	495	493
ANTHROPOLOGY	475	0.60	543	505	OPTOMETRY	17	0.02	484	591
MATHEMATICS	467	0.59	466	663	OSTEOPATHY	9	0.01	487	537
BIOCHEMISTRY	461	0.58	483	583					
SPEECH	450	0.57	463	445					
INDUSTRIAL ENG	425	0.54	395	615	NOT IN ABOVE	2082	2.62	465	496
PHYS THERAPY	416	0.52	477	514	UNDECIDED	5832	7.34	469	509
ZOOLOGY	380	0.48	524	557	TOTAL	79415	100.00	474	517
HOME ECONOMICS	374	0.47	429	458	NO RESPONSE	1794	2.21*	468	526

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 4. RANK ORDER OF INTENDED GRADUATE MAJOR FOR CANDIDATES AGE 30 - 39

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	5277	16.69	468	446	PHILOSOPHY	85	0.27	562	529
PSYCHOLOGY	2327	7.36	542	494	OTHER PHYS SCI	82	0.26	497	607
EDUC ADMIN	1952	6.17	458	460	DENTISTRY	71	0.22	504	562
NURSING	1763	5.57	509	462	PHYS THERAPY	68	0.22	518	526
GUIDANCE/COUNS	1255	3.97	479	441	CHEMICAL ENG	65	0.21	418	640
PUBLIC ADMIN	969	3.06	478	461	BIOCHEMISTRY	63	0.20	483	545
SOCIAL WORK	834	2.64	505	439	STATISTICS	62	0.20	411	613
COMPUTER SCI	740	2.34	495	630	SPANISH	61	0.19	458	398
BUSINESS/CMRCE	722	2.28	483	538	SOCIAL PSYCH	61	0.19	510	448
LIBRARY SCI	714	2.26	535	462	PHARMACY	60	0.19	471	562
ENGLISH	709	2.24	573	463	FORESTRY	59	0.19	495	566
RELIGIOUS STD	679	2.15	528	494	PHARMACOLOGY	59	0.19	481	557
PUBLIC HEALTH	514	1.63	516	499	PHYSIOLOGY	58	0.18	503	527
EDUC PSYCH	503	1.59	508	472	MEDICINE	55	0.17	500	551
OTHER SOC SCI	443	1.40	479	463	ZOOLOGY	54	0.17	501	515
ECONOMICS	427	1.35	446	561	BOTANY	54	0.17	523	532
HISTORY	385	1.22	529	461	LAW	49	0.15	454	427
ELECTRICAL ENG	357	1.13	424	637	FRENCH	44	0.14	520	480
PHYSICAL ED	356	1.13	420	442	COMPARE LIT	43	0.14	516	421
COMMUNICATIONS	339	1.07	514	475	OCCUP THERAPY	42	0.13	510	486
HOSPITAL ADMIN	317	1.00	484	478	PATHOLOGY	42	0.13	472	534
POLITICAL SCI	304	0.96	479	469	AUDIOLOGY	41	0.13	520	493
FINE ARTS	303	0.96	485	431	NEAR EAST LANG	40	0.13	514	491
AGRICULTURE	286	0.90	382	472	AMER STUDIES	40	0.13	542	496
SOCIOLOGY	252	0.80	483	440	ARCHAEOLOGY	39	0.12	556	496
MUSIC	245	0.77	507	466	AERONAUT ENG	36	0.11	436	653
BIOLOGY	235	0.74	511	524	GENETICS	36	0.11	518	539
ANTHROPOLOGY	227	0.72	559	486	ENTOMOLOGY	36	0.11	488	523
OTHER BIOL SCI	221	0.70	504	531	APPLIED MATH	33	0.10	500	610
JOURNALISM	216	0.68	562	487	METALLURGY	20	0.06	319	547
OTHER ENGIN	215	0.68	447	612	FAR EAST LANG	19	0.06	505	525
ARCHITECTURE	210	0.66	537	569	BACTERIOLOGY	19	0.06	467	494
URBAN DEVELOP	210	0.66	479	492	ANATOMY	19	0.06	501	512
GEOLOGY	201	0.64	533	572	OCEANOGRAPHY	18	0.06	447	573
CIVIL ENG	194	0.61	410	613	CLASSICAL LANG	16	0.05	608	550
HOME ECONOMICS	178	0.56	452	428	PARASITOLOGY	16	0.05	397	473
INDUSTRIAL REL	177	0.56	496	478	RUSSIAN	16	0.05	465	458
LINGUISTICS	171	0.54	509	504	ITALIAN	13	0.04	472	462
INTERNAT REL	166	0.52	515	497	ASTRONOMY	11	0.03	553	656
CHEMISTRY	150	0.47	463	597	GERMAN	11	0.03	483	425
MATHEMATICS	146	0.46	476	647	BIOPHYSICS	10	0.03	562	555
DRAMATIC ARTS	144	0.46	542	475	MINING	9	0.03	394	632
NUTRITION	143	0.45	485	476	SLAVIC STUDIES	6	0.02	482	565
VET MEDICINE	130	0.41	517	569	OPTOMETRY	5	0.02	606	576
SPEECH	128	0.40	519	461	OTHER FOR LANG	5	0.02	372	458
MICROBIOLOGY	127	0.40	502	523	OSTEOPATHY	4	0.01	498	520
MECHANICAL ENG	125	0.40	428	648					
PHYSICS	124	0.39	466	644					
OTH HUMANITIES	112	0.35	531	471	NOT IN ABOVE	925	2.92	485	493
INDUSTRIAL ENG	111	0.35	427	606	UNDECIDED	1716	5.43	484	478
GEOGRAPHY	100	0.32	480	497	TOTAL	31627	100.00	491	485
ART HISTORY	98	0.31	581	452	NO RESPONSE	776	2.39*	475	485

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 5. RANK ORDER OF INTENDED GRADUATE MAJOR FOR CANDIDATES AGE 40 OR MORE

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	2184	22.66	466	409	COMPARE LIT	16	0.17	592	427
EDUC ADMIN	781	8.10	448	411	PHYSICS	14	0.15	516	677
PSYCHOLOGY	605	6.28	526	443	AUDIOLOGY	14	0.15	452	438
NURSING	574	5.95	484	410	BIOCHEMISTRY	14	0.15	446	521
GUIDANCE/COUNS	485	5.03	474	399	OCCUP THERAPY	13	0.13	534	450
LIBRARY SCI	339	3.52	522	418	VET MEDICINE	13	0.13	402	465
PUBLIC ADMIN	280	2.90	480	432	SOCIAL PSYCH	13	0.13	451	377
ENGLISH	258	2.68	554	414	ARCHAEOLOGY	13	0.13	554	468
SOCIAL WORK	229	2.38	501	397	ARCHITECTURE	13	0.13	500	508
BUSINESS/CMRCE	221	2.29	482	502	PHYSIOLOGY	12	0.12	449	433
RELIGIOUS STD	191	1.98	517	453	FRENCH	12	0.12	516	478
OTHER SOC SCI	163	1.69	493	444	MECHANICAL ENG	11	0.11	430	580
HISTORY	163	1.69	558	423	PHARMACOLOGY	10	0.10	573	551
EDUC PSYCH	139	1.44	507	429	BOTANY	10	0.10	607	581
PUBLIC HEALTH	135	1.40	499	441	AMER STUDIES	10	0.10	528	369
COMPUTER SCI	126	1.31	510	593	NEAR EAST LANG	9	0.09	484	429
HOSPITAL ADMIN	97	1.01	457	402	STATISTICS	9	0.09	534	617
SOCIOLOGY	97	1.01	497	424	GERMAN	9	0.09	540	422
MUSIC	95	0.99	483	424	MEDICINE	8	0.08	515	540
FINE ARTS	88	0.91	486	400	FORESTRY	8	0.08	558	524
POLITICAL SCI	83	0.86	485	445	ITALIAN	7	0.07	507	411
COMMUNICATIONS	78	0.81	507	427	DENTISTRY	6	0.06	378	440
ANTHROPOLOGY	65	0.67	580	444	ENTOMOLOGY	6	0.06	470	443
ECONOMICS	60	0.62	473	531	PATHOLOGY	6	0.06	428	470
HOME ECONOMICS	57	0.59	463	407	ZOOLOGY	6	0.06	592	550
SPEECH	47	0.49	504	395	PHARMACY	6	0.06	352	493
URBAN DEVELOP	47	0.49	528	445	CHEMICAL ENG	4	0.04	440	680
PHYSICAL ED	46	0.48	424	396	OTHER FOR LANG	4	0.04	488	388
ELECTRICAL ENG	45	0.47	456	595	OCEANOGRAPHY	4	0.04	513	483
INDUSTRIAL REL	43	0.45	488	465	FAR EAST LANG	4	0.04	405	468
JOURNALISM	42	0.44	566	446	GENETICS	4	0.04	650	560
SPANISH	42	0.44	430	356	BACTERIOLOGY	3	0.03	507	460
ART HISTORY	40	0.41	542	394	OPTOMETRY	3	0.03	553	507
BIOLOGY	39	0.40	498	483	APPLIED MATH	3	0.03	557	763
OTH HUMANITIES	38	0.39	540	420	CLASSICAL LANG	3	0.03	543	380
INTERNAT REL	33	0.34	538	464	RUSSIAN	2	0.02	715	545
LINGUISTICS	32	0.33	498	464	ASTRONOMY	2	0.02	385	400
DRAMATIC ARTS	31	0.32	522	425	PARASITOLOGY	2	0.02	465	635
NUTRITION	31	0.32	484	432	METALLURGY	2	0.02	280	505
OTHER BIOL SCI	31	0.32	489	470	ANATOMY	2	0.02	635	585
AGRICULTURE	31	0.32	430	451	BIOPHYSICS	2	0.02	505	520
OTHER ENGIN	28	0.29	489	607	AERONAUT ENG	1	0.01	600	760
GEOLOGY	26	0.27	540	549	PHYS THERAPY	1	0.01	480	390
MATHEMATICS	26	0.27	511	668	MINING	1	0.01	300	340
OTHER PHYS SCI	24	0.25	490	570	SLAVIC STUDIES	0	0.0	0	0
LAW	23	0.24	445	377	OSTEOPATHY	0	0.0	0	0
PHILOSOPHY	23	0.24	579	489					
CHEMISTRY	21	0.22	428	578					
MICROBIOLOGY	20	0.21	516	500	NOT IN ABOVE	315	3.27	464	422
CIVIL ENG	20	0.21	437	588	UNDECIDED	549	5.70	471	420
INDUSTRIAL ENG	19	0.20	448	576	TOTAL	9639	100.00	486	430
GEOGRAPHY	19	0.20	529	502	NO RESPONSE	248	2.51*	468	426

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 6. RANK ORDER OF INTENDED GRADUATE MAJOR FOR MALES

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
PSYCHOLOGY	5357	5.91	515	530	MEDICINE	407	0.45	506	610
EDUCATION	3535	3.90	456	487	LAW	406	0.45	488	517
COMPUTER SCI	3505	3.87	486	655	PHARMACOLOGY	405	0.45	497	602
ELECTRICAL ENG	3460	3.82	448	668	LIBRARY SCI	386	0.43	545	490
RELIGIOUS STD	2962	3.27	511	517	GENETICS	327	0.36	527	620
BUSINESS/CMRCE	2769	3.06	459	563	PHYS THERAPY	311	0.34	468	534
ECONOMICS	2548	2.81	475	603	DENTISTRY	309	0.34	487	586
PUBLIC ADMIN	2312	2.55	468	489	NURSING	307	0.34	497	504
EDUC ADMIN	2280	2.52	439	474	PHARMACY	294	0.32	449	570
GEOLOGY	2132	2.35	497	590	OTH. HUMANITIES	282	0.31	546	532
CHEMISTRY	1885	2.08	499	640	BOTANY	277	0.31	521	580
CIVIL ENG	1871	2.06	402	638	STATISTICS	239	0.26	452	669
MECHANICAL ENG	1805	1.99	440	666	APPLIED MATH	236	0.26	520	692
OTHER ENGIN	1729	1.91	469	647	SPEECH	236	0.26	490	492
POLITICAL SCI	1653	1.82	492	516	ENTOMOLOGY	231	0.25	493	556
ENGLISH	1637	1.81	584	527	LINGUISTICS	226	0.25	497	540
PHYSICS	1617	1.78	527	692	OCEANOGRAPHY	223	0.25	497	628
AGRICULTURE	1504	1.66	424	522	ARCHAEOLOGY	174	0.19	552	540
ARCHITECTURE	1496	1.65	481	579	METALLURGY	173	0.19	422	646
HISTORY	1480	1.63	538	512	PATHOLOGY	155	0.17	471	565
OTHER BIOL SCI	1418	1.56	506	586	ANATOMY	155	0.17	486	564
BIOLOGY	1393	1.54	500	570	ASTRONOMY	150	0.17	552	683
MUSIC	1351	1.49	493	515	NUTRITION	147	0.16	445	555
INTERNAT REL	1301	1.44	534	547	ART HISTORY	136	0.15	543	508
PHYSICAL ED	1299	1.43	406	467	NEAR EAST LANG	124	0.14	540	569
GUIDANCE/COUNS	1261	1.39	455	465	SPANISH	121	0.13	467	467
CHEMICAL ENG	1252	1.38	470	676	SOCIAL PSYCH	117	0.13	479	500
VET MEDICINE	1247	1.38	477	591	COMPARE LIT	105	0.12	576	536
URBAN DEVELOP	973	1.07	474	529	AUDIOLOGY	100	0.11	462	505
COMMUNICATIONS	914	1.01	484	500	AMER STUDIES	90	0.10	546	535
OTHER SOC SCI	878	0.97	472	500	FRENCH	86	0.09	539	541
BIOCHEMISTRY	848	0.94	515	625	BIOPHYSICS	85	0.09	573	660
SOCIAL WORK	845	0.93	471	464	CLASSICAL LANG	77	0.08	628	572
MATHEMATICS	823	0.91	517	697	BACTERIOLOGY	69	0.08	477	545
MICROBIOLOGY	746	0.82	479	564	GERMAN	65	0.07	555	552
JOURNALISM	740	0.82	538	522	FAR EAST LANG	63	0.07	562	560
HOSPITAL ADMIN	725	0.80	464	519	RUSSIAN	55	0.06	532	554
PUBLIC HEALTH	708	0.78	487	539	MINING	54	0.06	435	625
FINE ARTS	700	0.77	469	467	SLAVIC STUDIES	50	0.06	527	582
INDUSTRIAL ENG	698	0.77	405	626	HOME ECONOMICS	45	0.05	431	483
DRAMATIC ARTS	621	0.69	529	516	PARASITOLOGY	43	0.05	490	568
OTHER PHYS SCI	570	0.63	499	638	OCCUP THERAPY	38	0.04	497	521
ZOOLOGY	569	0.63	528	578	OPTOMETRY	26	0.03	498	586
INDUSTRIAL REL	567	0.63	466	512	OTHER FOR LANG	26	0.03	515	527
SOCIOLOGY	552	0.61	467	488	ITALIAN	24	0.03	503	543
PHILOSOPHY	539	0.59	593	578	OSTEOPATHY	13	0.01	454	535
PHYSIOLOGY	474	0.52	493	573					
GEOGRAPHY	469	0.52	485	536					
FORESTRY	462	0.51	495	583					
EDUC PSYCH	451	0.50	486	491	NOT IN ABOVE	2140	2.36	467	530
ANTHROPOLOGY	447	0.49	541	521	UNDECIDED	7017	7.74	482	557
AERONAUT ENG	416	0.46	477	667	TOTAL	90619	100.00	484	563
					NO RESPONSE	2098	2.26*	475	564

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 7. RANK ORDER OF INTENDED GRADUATE MAJOR FOR FEMALES

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	15068	14.10	448	438	SPANISH	360	0.34	465	438
PSYCHOLOGY	9039	8.46	508	489	LAW	354	0.33	479	468
NURSING	6448	6.03	491	473	MEDICINE	327	0.31	507	557
SOCIAL WORK	3475	3.25	465	434	OCCUP THERAPY	315	0.29	477	478
GUIDANCE/COUNS	3455	3.23	455	433	BOTANY	304	0.28	538	562
ENGLISH	2757	2.58	564	471	FRENCH	276	0.26	526	491
EDUC ADMIN	2330	2.18	451	431	ELECTRICAL ENG	275	0.26	484	661
LIBRARY SCI	2278	2.13	524	459	GEOGRAPHY	272	0.25	505	513
PUBLIC ADMIN	1910	1.79	469	448	PHARMACOLOGY	265	0.25	505	574
PUBLIC HEALTH	1769	1.65	501	502	CHEMICAL ENG	256	0.24	506	655
BUSINESS/CMRCE	1732	1.62	469	504	PATHOLOGY	255	0.24	463	488
COMPUTER SCI	1510	1.41	462	609	SOCIAL PSYCH	247	0.23	481	466
COMMUNICATIONS	1507	1.41	477	453	PHILOSOPHY	233	0.22	568	515
MUSIC	1459	1.36	491	478	COMPARE LIT	222	0.21	564	479
NUTRITION	1424	1.33	466	501	PHARMACY	210	0.20	466	566
OTHER SOC SCI	1397	1.31	476	462	CIVIL ENG	205	0.19	484	641
VET MEDICINE	1367	1.28	518	573	PHYSICS	202	0.19	552	662
OTHER BIOL SCI	1352	1.26	506	537	ARCHAEOLOGY	190	0.18	560	501
PHYSICAL ED	1256	1.17	415	445	STATISTICS	185	0.17	460	617
SPEECH	1239	1.16	453	443	FORESTRY	175	0.16	536	571
EDUC PSYCH	1196	1.12	482	465	OTHER PHYS SCI	169	0.16	515	593
BIOLOGY	1186	1.11	510	543	MECHANICAL ENG	154	0.14	532	665
FINE ARTS	1132	1.06	477	444	AMER STUDIES	143	0.13	545	492
INTERNAT REL	1105	1.03	536	507	NEAR EAST LANG	139	0.13	491	495
HISTORY	1102	1.03	549	466	INDUSTRIAL ENG	130	0.12	448	611
JOURNALISM	1032	0.97	526	471	OCEANOGRAPHY	122	0.11	525	584
HOSPITAL ADMIN	965	0.90	474	474	GERMAN	121	0.11	535	511
HOME ECONOMICS	954	0.89	431	446	ENTOMOLOGY	109	0.10	516	535
ECONOMICS	930	0.87	504	563	APPLIED MATH	101	0.09	513	639
SOCIOLOGY	916	0.86	470	452	DENTISTRY	90	0.08	462	520
RELIGIOUS STD	865	0.81	543	491	ANATOMY	87	0.08	501	521
GEOLOGY	852	0.80	537	580	FAR EAST LANG	80	0.07	515	516
CHEMISTRY	843	0.79	502	608	CLASSICAL LANG	76	0.07	617	554
MICROBIOLOGY	815	0.76	485	538	BACTERIOLOGY	68	0.06	493	519
POLITICAL SCI	784	0.73	506	472	RUSSIAN	60	0.06	562	516
URBAN DEVELOP	764	0.71	503	486	ITALIAN	45	0.04	472	438
PHYS THERAPY	741	0.69	478	521	SLAVIC STUDIES	41	0.04	600	551
ANTHROPOLOGY	719	0.67	552	497	PARASITOLOGY	36	0.03	456	503
ART HISTORY	693	0.65	542	479	BIOPHYSICS	32	0.03	578	591
ARCHITECTURE	686	0.64	522	558	ASTRONOMY	30	0.03	567	632
DRAMATIC ARTS	635	0.59	519	464	AERONAUT ENG	30	0.03	494	624
INDUSTRIAL REL	616	0.58	487	477	OTHER FOR LANG	25	0.02	501	478
AUDIOLOGY	584	0.55	455	466	METALLURGY	17	0.02	459	598
AGRICULTURE	582	0.54	476	526	OPTOMETRY	14	0.01	533	567
BIOCHEMISTRY	575	0.54	508	583	OSTEOPATHY	10	0.01	538	596
MATHEMATICS	536	0.50	475	639	MINING	6	0.01	470	592
GENETICS	435	0.41	535	586					
LINGUISTICS	427	0.40	525	523					
OTH HUMANITIES	405	0.38	518	472	NOT IN ABOVE	3127	2.93	466	466
PHYSIOLOGY	364	0.34	498	536	UNDECIDED	9777	9.15	486	492
ZOOLOGY	362	0.34	528	558	TOTAL	106901	100.00	486	484
OTHER ENGIN	361	0.34	510	621	NO RESPONSE	2224	2.04*	485	482

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 8. RANK ORDER OF INTENDED GRADUATE MAJOR FOR CANDIDATES WHO RECEIVED BACHELORS DEGREE 1972-1966

	N	%	MEAN GRE-V	MEAN GRE-C		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	3284	20.50	477	458	DENTISTRY	42	0.26	543	557
EDUC ADMIN	1454	9.08	463	465	GEOGRAPHY	41	0.26	504	487
PSYCHOLOGY	983	6.14	568	515	PHYS THERAPY	38	0.24	536	541
GUIDANCE/COUNS	703	4.39	496	456	PHILOSOPHY	31	0.19	571	539
NURSING	631	3.94	525	476	FORESTRY	30	0.19	508	600
PUBLIC ADMIN	472	2.95	502	484	STATISTICS	29	0.18	447	612
LIBRARY SCI	435	2.72	548	472	PHARMACOLOGY	28	0.17	501	583
COMPUTER SCI	376	2.35	513	646	PHYSIOLOGY	27	0.17	540	543
RELIGIOUS STD	372	2.32	556	513	BIOCHEMISTRY	26	0.16	441	535
SOCIAL WORK	360	2.25	534	465	BOTANY	26	0.16	528	548
ENGLISH	346	2.16	586	476	AERONAUT ENG	24	0.15	441	658
BUSINESS/CMRCE	335	2.09	508	555	FRENCH	24	0.15	530	490
EDUC PSYCH	295	1.84	527	489	CHEMICAL ENG	23	0.14	411	671
PUBLIC HEALTH	241	1.50	544	527	MEDICINE	23	0.14	473	583
PHYSICAL ED	212	1.32	430	449	COMPARE LIT	23	0.14	539	436
OTHER SOC SCI	207	1.29	509	488	PHARMACY	22	0.14	425	534
ECONOMICS	170	1.06	474	590	NEAR EAST LANG	22	0.14	533	515
COMMUNICATIONS	169	1.05	520	488	OCCUP THERAPY	21	0.13	507	489
HISTORY	166	1.04	534	464	PATHOLOGY	21	0.13	487	546
HOSPITAL ADMIN	150	0.94	493	491	SOCIAL PSYCH	20	0.12	511	474
MUSIC	144	0.90	507	462	ZOOLOGY	20	0.12	565	545
ELECTRICAL ENG	139	0.87	441	659	SPANISH	20	0.12	481	422
FINE ARTS	126	0.79	482	435	AMER STUDIES	19	0.12	574	499
POLITICAL SCI	121	0.76	517	490	AUDIOLOGY	17	0.11	549	508
ARCHITECTURE	115	0.72	566	579	APPLIED MATH	16	0.10	539	606
AGRICULTURE	111	0.69	414	492	ENTOMOLOGY	14	0.09	499	532
JOURNALISM	108	0.67	569	490	LAW	13	0.08	497	441
OTHER ENGIN	106	0.66	456	635	GENETICS	13	0.08	506	580
HOME ECONOMICS	97	0.61	464	432	ARCHAEOLOGY	11	0.07	595	516
OTHER BIOL SCI	94	0.59	494	549	ANATOMY	11	0.07	505	515
BIOLOGY	92	0.57	538	537	CLASSICAL LANG	11	0.07	597	544
LINGUISTICS	92	0.57	526	517	OCEANOGRAPHY	9	0.06	458	562
URBAN DEVELOP	92	0.57	507	514	BACTERIOLOGY	9	0.06	420	507
SOCIOLOGY	86	0.54	497	475	FAR EAST LANG	8	0.05	476	491
MATHEMATICS	80	0.50	458	653	ITALIAN	8	0.05	500	479
ANTHROPOLOGY	80	0.50	568	495	METALLURGY	7	0.04	433	650
CIVIL ENG	79	0.49	418	635	MINING	7	0.04	403	661
INDUSTRIAL REL	78	0.49	512	481	RUSSIAN	6	0.04	487	487
INTERNAT REL	77	0.48	567	541	GERMAN	4	0.02	563	448
DRAMATIC ARTS	73	0.46	557	476	PARASITOLOGY	4	0.02	393	410
SPEECH	64	0.40	523	464	SLAVIC STUDIES	4	0.02	403	580
NUTRITION	63	0.39	476	488	OTHER FOR LANG	3	0.02	380	503
GEOLOGY	58	0.36	534	570	ASTRONOMY	3	0.02	487	660
CHEMISTRY	55	0.34	439	579	BIOPHYSICS	2	0.01	510	475
MECHANICAL ENG	55	0.34	454	667	OPTOMETRY	2	0.01	595	580
MICROBIOLOGY	51	0.32	523	526	OSTEOPATHY	0	0.0	0	0
INDUSTRIAL ENG	50	0.31	459	651					
VET MEDICINE	47	0.29	527	572					
PHYSICS	47	0.29	446	666					
ART HISTORY	44	0.27	597	460	NOT IN ABOVE	483	3.01	498	507
OTH HUMANITIES	44	0.27	580	522	UNDECIDED	783	4.89	507	493
OTHER PHYS SCI	43	0.27	489	620	TOTAL	16020	100.00	504	496
					NO RESPONSE	233	1.43*	494	492

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 9. RANK ORDER OF INTENDED GRADUATE MAJOR FOR CANDIDATES WHO RECEIVED BACHELORS DEGREE 1965 OR EARL

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	1824	26.71	491	429	PHILOSOPHY	12	0.18	615	504
EDUC ADMIN	696	10.19	464	428	GEOGRAPHY	11	0.16	571	575
PSYCHOLOGY	358	5.24	572	483	GEOLOGY	11	0.16	525	578
GUIDANCE/COUNS	346	5.07	499	425	AMER STUDIES	11	0.16	544	425
NURSING	290	4.25	512	427	LAW	10	0.15	459	417
LIBRARY SCI	282	4.13	537	437	AUDIOLOGY	10	0.15	562	488
SOCIAL WORK	165	2.42	540	440	VET MEDICINE	9	0.13	403	447
PUBLIC ADMIN	155	2.27	526	472	BIOCHEMISTRY	9	0.13	533	570
ENGLISH	148	2.17	575	425	NEAR EAST LANG	9	0.13	502	452
RELIGIOUS STD	140	2.05	541	484	FORESTRY	8	0.12	421	543
EDUC PSYCH	136	1.99	532	462	SOCIAL PSYCH	8	0.12	508	408
BUSINESS/CMRCE	121	1.77	527	535	COMPARE LIT	7	0.10	627	446
COMPUTER SCI	120	1.76	553	634	MEDICINE	7	0.10	573	567
PUBLIC HEALTH	89	1.30	552	488	FRENCH	7	0.10	549	491
OTHER SOC SCI	85	1.24	506	462	PHYSIOLOGY	5	0.07	482	474
HISTORY	84	1.23	590	461	MECHANICAL ENG	5	0.07	440	652
MUSIC	83	1.22	500	422	APPLIED MATH	5	0.07	506	668
FINE ARTS	57	0.83	513	418	ENTOMOLOGY	5	0.07	504	502
HOME ECONOMICS	56	0.82	475	417	ARCHAEOLOGY	5	0.07	526	554
HOSPITAL ADMIN	54	0.79	513	469	GERMAN	5	0.07	564	488
SOCIOLOGY	49	0.72	555	467	ZOOLOGY	5	0.07	560	518
COMMUNICATIONS	48	0.70	566	458	OCEANOGRAPHY	4	0.06	598	573
PHYSICAL ED	45	0.66	418	397	PHARMACY	4	0.06	413	510
POLITICAL SCI	42	0.62	514	468	BOTANY	4	0.06	660	585
ECONOMICS	37	0.54	482	532	ITALIAN	4	0.06	463	428
JOURNALISM	36	0.53	586	461	DENTISTRY	4	0.06	475	443
ANTHROPOLOGY	34	0.50	597	465	GENETICS	4	0.06	568	443
URBAN DEVELOP	33	0.48	533	453	PHARMACOLOGY	4	0.06	653	583
ELECTRICAL ENG	32	0.47	465	619	OPTOMETRY	3	0.04	663	567
NUTRITION	30	0.44	489	443	BACTERIOLOGY	3	0.04	410	540
SPEECH	30	0.44	548	417	ASTRONOMY	3	0.04	487	513
OTHER BIOL SCI	28	0.41	522	504	CHEMICAL ENG	2	0.03	250	560
OTH HUMANITIES	27	0.40	560	458	CLASSICAL LANG	2	0.03	660	495
MATHEMATICS	26	0.38	571	702	PATHOLOGY	2	0.03	375	535
AGRICULTURE	26	0.38	415	442	PHYS THERAPY	2	0.03	545	505
LINGUISTICS	25	0.37	521	454	PARASITOLOGY	2	0.03	475	435
DRAMATIC ARTS	24	0.35	556	471	AERONAUT ENG	1	0.01	600	760
OTHER ENGIN	24	0.35	516	652	FAR EAST LANG	1	0.01	510	410
INDUSTRIAL REL	24	0.35	544	522	METALLURGY	1	0.01	200	490
ART HISTORY	23	0.34	600	456	ANATOMY	1	0.01	740	580
CHEMISTRY	20	0.29	493	596	BIOPHYSICS	1	0.01	700	570
BIOLOGY	19	0.28	532	549	MINING	0	0.0	0	0
PHYSICS	19	0.28	476	647	OSTEOPATHY	0	0.0	0	0
ARCHITECTURE	16	0.23	584	546	SLAVIC STUDIES	0	0.0	0	0
CIVIL ENG	15	0.22	455	632	RUSSIAN	0	0.0	0	0
MICROBIOLOGY	15	0.22	530	469	OTHER FOR LANG	0	0.0	0	0
OTHER PHYS SCI	14	0.21	500	623					
OCCUP THERAPY	14	0.21	536	454					
SPANISH	14	0.21	529	392					
INDUSTRIAL ENG	13	0.19	465	631	NOT IN ABOVE	202	2.96	498	456
INTERNAT REL	13	0.19	623	552	UNDECIDED	294	4.31	517	460
STATISTICS	12	0.18	469	640	TOTAL	6828	100.00	512	456
					NO RESPONSE	111	1.60*	518	462

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 10. RANK ORDER OF INTENDED GRADUATE MAJOR FOR MALES AGE 22 OR LESS

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
PSYCHOLOGY	2100	6.29	505	545	PUBLIC HEALTH	158	0.47	491	574
ELECTRICAL ENG	1551	4.64	479	689	APPLIED MATH	132	0.40	555	723
CHEMISTRY	1183	3.54	524	658	PHYS THERAPY	132	0.40	459	540
COMPUTER SCI	1167	3.49	523	686	ANTHROPOLOGY	131	0.39	546	564
GEOLOGY	1003	3.00	507	609	EDUC ADMIN	118	0.35	440	510
PHYSICS	980	2.93	561	707	OCEANOGRAPHY	115	0.34	519	635
ECONOMICS	951	2.85	522	636	BOTANY	101	0.30	513	584
BUSINESS/CMRCE	895	2.68	464	580	ASTRONOMY	98	0.29	581	705
RELIGIOUS STD	876	2.62	499	533	STATISTICS	97	0.29	498	691
VET MEDICINE	785	2.35	475	601	SPEECH	92	0.28	479	509
MECHANICAL ENG	767	2.30	472	683	OTH HUMANITIES	79	0.24	544	545
OTHER ENGIN	757	2.27	505	672	PHARMACY	76	0.23	474	598
CHEMICAL ENG	683	2.04	514	700	ANATOMY	75	0.22	476	584
POLITICAL SCI	661	1.98	526	549	ENTOMOLOGY	70	0.21	509	586
CIVIL ENG	652	1.95	428	665	ARCHAEOLOGY	64	0.19	569	548
BIOLOGY	651	1.95	504	589	METALLURGY	57	0.17	502	673
INTERNAT REL	639	1.91	556	566	PATHOLOGY	55	0.16	487	579
ENGLISH	627	1.88	594	556	BIOPHYSICS	53	0.16	595	691
OTHER BIOL SCI	620	1.86	511	605	LIBRARY SCI	48	0.14	517	510
ARCHITECTURE	571	1.71	494	595	EDUC PSYCH	47	0.14	473	524
HISTORY	562	1.68	551	534	ART HISTORY	46	0.14	524	506
PUBLIC ADMIN	562	1.68	483	519	NEAR EAST LANG	44	0.13	531	592
BIOCHEMISTRY	524	1.57	538	648	SPANISH	42	0.13	502	515
MUSIC	513	1.54	497	536	CLASSICAL LANG	41	0.12	636	593
AGRICULTURE	487	1.46	451	559	NUTRITION	40	0.12	489	600
MATHEMATICS	414	1.24	558	722	LINGUISTICS	39	0.12	543	574
EDUCATION	356	1.07	464	534	SOCIAL PSYCH	38	0.11	466	515
MICROBIOLOGY	353	1.06	492	579	AUDIOLOGY	37	0.11	448	523
PHYSICAL ED	333	1.00	410	499	DENTISTRY	34	0.10	456	539
URBAN DEVELOP	327	0.98	490	552	COMPARE LIT	34	0.10	613	571
COMMUNICATIONS	317	0.95	491	512	FRENCH	32	0.10	557	589
ZOOLOGY	290	0.87	536	595	AMER STUDIES	28	0.08	587	543
JOURNALISM	271	0.81	531	531	BACTERIOLOGY	26	0.08	493	575
AERONAUT ENG	240	0.72	495	684	RUSSIAN	26	0.08	534	568
OTHER PHYS SCI	238	0.71	510	663	SLAVIC STUDIES	25	0.07	540	588
MEDICINE	227	0.68	513	631	FAR EAST LANG	25	0.07	588	574
DRAMATIC ARTS	227	0.68	538	546	GERMAN	24	0.07	546	567
HOSPITAL ADMIN	223	0.67	459	543	MINING	19	0.06	472	625
PHYSIOLOGY	218	0.65	500	591	NURSING	18	0.05	491	511
LAW	217	0.65	505	543	PARASITOLOGY	14	0.04	517	614
PHILOSOPHY	212	0.63	604	596	OPTOMETRY	11	0.03	504	593
INDUSTRIAL ENG	206	0.62	430	654	HOME ECONOMICS	10	0.03	450	557
FORESTRY	203	0.61	491	597	OTHER FOR LANG	10	0.03	584	549
GENETICS	190	0.57	530	637	OCCUP THERAPY	8	0.02	478	566
INDUSTRIAL REL	187	0.56	467	524	ITALIAN	7	0.02	557	604
PHARMACOLOGY	185	0.55	522	624	OSTEOPATHY	4	0.01	463	580
GUIDANCE/COUNS	184	0.55	437	480					
OTHER SOC SCI	168	0.50	477	529					
SOCIOLOGY	165	0.49	489	525	NOT IN ABOVE	501	1.50	469	552
FINE ARTS	162	0.48	476	510	UNDECIDED	3223	9.65	505	592
GEOGRAPHY	160	0.48	488	560	TOTAL	33403	100.00	505	602
SOCIAL WORK	159	0.48	439	474	NO RESPONSE	655	1.92*	515	606

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 11. RANK ORDER OF INTENDED GRADUATE MAJOR FOR FEMALES AGE 22 OR LESS

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
PSYCHOLOGY	4280	10.06	494	498	CHEMICAL ENG	181	0.43	519	672
EDUCATION	2973	6.99	435	464	ELECTRICAL ENG	173	0.41	503	681
SOCIAL WORK	1450	3.41	444	447	SPANISH	147	0.35	473	467
ENGLISH	1116	2.62	569	495	OTH HUMANITIES	146	0.34	522	495
VET MEDICINE	908	2.13	511	576	PHYSICS	138	0.32	572	674
GUIDANCE/COUNS	894	2.10	440	457	BOTANY	136	0.32	543	576
BUSINESS/CHRC	798	1.88	462	513	PATHOLOGY	133	0.31	450	479
NURSING	797	1.87	482	502	FRENCH	130	0.31	534	503
COMMUNICATIONS	760	1.79	468	462	LINGUISTICS	129	0.30	546	558
SPEECH	753	1.77	443	449	GEOGRAPHY	121	0.28	500	521
OTHER BIOL SCI	744	1.75	505	546	OCCUP THERAPY	121	0.28	461	494
INTERNAT REL	740	1.74	537	518	CIVIL ENG	114	0.27	492	652
MUSIC	718	1.69	486	494	PHARMACOLOGY	114	0.27	510	589
PUBLIC ADMIN	695	1.63	459	453	SOCIAL PSYCH	112	0.26	464	471
NUTRITION	645	1.52	464	518	PHILOSOPHY	110	0.26	579	535
BIOLOGY	635	1.49	509	556	MECHANICAL ENG	105	0.25	523	666
COMPUTER SCI	595	1.40	475	620	FORESTRY	104	0.24	529	583
OTHER SOC SCI	577	1.36	471	481	STATISTICS	104	0.24	470	619
CHEMISTRY	564	1.33	519	621	ARCHAEOLOGY	98	0.23	570	530
ECONOMICS	520	1.22	521	577	COMPARE LIT	94	0.22	582	501
PUBLIC HEALTH	517	1.21	492	529	OTHER PHYS SCI	89	0.21	528	620
LIBRARY SCI	516	1.21	528	485	PHARMACY	77	0.18	479	585
PHYSICAL ED	496	1.17	406	455	OCEANOGRAPHY	75	0.18	524	591
GEOLOGY	490	1.15	533	591	NEAR EAST LANG	69	0.16	506	526
HISTORY	483	1.13	552	487	APPLIED MATH	65	0.15	510	651
MICROBIOLOGY	470	1.10	488	551	INDUSTRIAL ENG	62	0.15	435	631
JOURNALISM	453	1.06	513	476	AMER STUDIES	61	0.14	531	503
PHYS THERAPY	431	1.01	472	531	GERMAN	57	0.13	548	548
POLITICAL SCI	409	0.96	510	486	ANATOMY	47	0.11	502	524
SOCIOLOGY	400	0.94	458	462	CLASSICAL LANG	44	0.10	610	569
FINE ARTS	394	0.93	473	458	BACTERIOLOGY	38	0.09	518	543
AUDIOLOGY	385	0.90	444	469	FAR EAST LANG	35	0.08	541	527
HOME ECONOMICS	381	0.90	419	450	ENTOMOLOGY	34	0.08	527	545
BIOCHEMISTRY	354	0.83	522	598	RUSSIAN	34	0.08	583	541
ART HISTORY	349	0.82	545	504	SLAVIC STUDIES	25	0.06	593	577
URBAN DEVELOP	339	0.80	495	491	ASTRONOMY	21	0.05	605	655
HOSPITAL ADMIN	333	0.76	476	503	BIOPHYSICS	20	0.05	593	623
RELIGIOUS STD	330	0.78	548	515	DENTISTRY	20	0.05	427	454
AGRICULTURE	312	0.73	482	541	AERONAUT ENG	18	0.04	524	641
MATHEMATICS	301	0.71	488	641	ITALIAN	17	0.04	494	448
DRAMATIC ARTS	300	0.70	521	479	PARASITOLOGY	12	0.03	471	516
ARCHITECTURE	291	0.68	516	570	OTHER FOR LANG	10	0.02	539	548
EDUC PSYCH	285	0.67	465	491	METALLURGY	8	0.02	521	665
INDUSTRIAL REL	278	0.65	475	492	OSTEOPATHY	6	0.01	510	615
GENETICS	275	0.65	543	595	OPTOMETRY	4	0.01	490	555
EDUC ADMIN	270	0.63	428	456	MINING	3	0.01	540	603
ANTHROPOLOGY	265	0.62	544	514					
LAW	244	0.57	492	480					
OTHER ENGIN	213	0.50	529	646	NOT IN ABOVE	1405	3.30	457	479
PHYSIOLOGY	205	0.48	506	547	UNDECIDED	5357	12.59	492	511
ZOOLOGY	201	0.47	528	574	TOTAL	42556	100.00	488	510
MEDICINE	201	0.47	510	571	NO RESPONSE	820	1.89*	493	513

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 12. RANK ORDER OF INTENDED GRADUATE MAJOR FOR MALES AGE 23-29

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
PSYCHOLOGY	2207	5.59	514	525	LIBRARY SCI	179	0.45	543	492
COMPUTER SCI	1678	4.25	458	442	PHARMACOLOGY	177	0.45	478	588
ELECTRICAL ENG	1501	3.80	422	655	PHARMACY	171	0.43	439	565
EDUCATION	1490	3.78	449	489	NURSING	162	0.41	496	519
RELIGIOUS STD	1437	3.64	514	517	BOTANY	146	0.37	528	584
BUSINESS/CMRCE	1206	3.06	448	561	PHYS THERAPY	146	0.37	465	530
ECONOMICS	1174	2.98	451	591	OTH HUMANITIES	143	0.36	545	535
CIVIL ENG	988	2.50	386	628	LAW	139	0.35	479	512
PUBLIC ADMIN	943	2.39	462	491	MEDICINE	138	0.35	499	591
GEOLOGY	939	2.38	484	574	AERONAUT ENG	136	0.34	457	640
MECHANICAL ENG	888	2.25	415	656	ENTOMOLOGY	128	0.32	490	550
ARCHITECTURE	781	1.98	466	567	GENETICS	115	0.29	527	601
OTHER ENGIN	741	1.88	442	631	SPEECH	106	0.27	491	480
AGRICULTURE	728	1.85	424	519	LINGUISTICS	105	0.27	489	548
EDUC ADMIN	718	1.82	426	482	METALLURGY	95	0.24	398	650
ENGLISH	709	1.80	582	524	STATISTICS	94	0.24	429	668
PHYSICAL ED	705	1.79	404	459	OCEANOGRAPHY	86	0.22	476	627
POLITICAL SCI	690	1.75	475	505	APPLIED MATH	81	0.21	475	659
MUSIC	678	1.72	491	507	NUTRITION	78	0.20	443	558
OTHER BIOL SCI	666	1.69	505	577	ARCHAEOLOGY	77	0.20	533	535
HISTORY	630	1.60	535	513	PATHOLOGY	74	0.19	467	559
BIOLOGY	586	1.49	498	559	ART HISTORY	71	0.18	559	516
CHEMISTRY	574	1.45	460	613	ANATOMY	70	0.18	486	545
GUIDANCE/COUNS	535	1.36	442	468	SOCIAL PSYCH	56	0.14	481	509
INTERNAT REL	521	1.32	512	534	AUDIOLOGY	54	0.14	471	489
PHYSICS	499	1.26	478	675	NEAR EAST LANG	53	0.13	542	553
URBAN DEVELOP	495	1.25	467	519	COMPARE LIT	51	0.13	570	547
CHEMICAL ENG	493	1.25	418	648	SPANISH	46	0.12	459	485
SOCIAL WORK	421	1.07	462	461	AMER STUDIES	44	0.11	519	519
COMMUNICATIONS	410	1.04	471	496	ASTRONOMY	42	0.11	496	654
OTHER SOC SCI	394	1.00	472	502	FRENCH	36	0.09	531	506
FINE ARTS	385	0.98	466	465	GERMAN	36	0.09	564	556
VET MEDICINE	375	0.95	487	579	BACTERIOLOGY	30	0.08	483	535
INDUSTRIAL ENG	365	0.93	386	618	BIOPHYSICS	27	0.07	534	614
JOURNALISM	342	0.87	537	520	FAR EAST LANG	26	0.07	573	563
PUBLIC HEALTH	339	0.86	477	534	CLASSICAL LANG	26	0.07	638	550
MICROBIOLOGY	327	0.83	467	552	MINING	25	0.06	426	634
HOSPITAL ADMIN	313	0.79	461	519	OCCUP THERAPY	23	0.06	502	515
MATHEMATICS	301	0.76	474	679	PARASITOLOGY	23	0.06	507	558
DRAMATIC ARTS	296	0.75	524	504	SLAVIC STUDIES	20	0.05	528	573
BIOCHEMISTRY	277	0.70	480	596	RUSSIAN	19	0.05	527	581
INDUSTRIAL REL	257	0.65	463	509	HOME ECONOMICS	16	0.04	391	485
PHILOSOPHY	251	0.64	586	571	OTHER FOR LANG	13	0.03	490	531
SOCIOLOGY	245	0.62	460	491	OPTOMETRY	11	0.03	466	575
OTHER PHYS SCI	241	0.61	493	618	ITALIAN	7	0.02	450	539
ZOOLOGY	237	0.60	522	567	OSTEOPATHY	6	0.02	418	523
GEOGRAPHY	228	0.58	488	531					
EDUC PSYCH	217	0.55	483	495					
PHYSIOLOGY	209	0.53	490	566	NOT IN ABOVE	1011	2.56	464	530
ANTHROPOLOGY	205	0.52	541	513	UNDECIDED	2802	7.10	464	540
DENTISTRY	203	0.51	487	604	TOTAL	39455	100.00	471	554
FORESTRY	197	0.50	498	573	NO RESPONSE	971	2.40*	459	563

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 13. RANK ORDER OF INTENDED GRADUATE MAJOR FOR FEMALES AGE 23-29

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	6233	15.79	435	440	PHYSIOLOGY	135	0.34	480	526
NURSING	3410	8.64	486	483	BOTANY	133	0.34	530	555
PSYCHOLOGY	2785	7.05	511	488	OTHER ENGIN	125	0.32	477	587
GUIDANCE/COUNS	1337	3.39	443	430	PHARMACOLOGY	116	0.29	499	567
SOCIAL WORK	1207	3.06	464	430	PHARMACY	110	0.28	456	552
ENGLISH	942	2.39	556	466	GEOGRAPHY	108	0.27	498	511
LIBRARY SCI	856	2.17	520	461	FRENCH	105	0.27	521	491
PUBLIC HEALTH	800	2.03	498	500	PATHOLOGY	98	0.25	476	500
EDUC ADMIN	755	1.91	436	436	MEDICINE	96	0.24	502	541
PUBLIC ADMIN	727	1.84	462	453	COMPARE LIT	88	0.22	552	485
COMPUTER SCI	670	1.70	437	601	PHILOSOPHY	86	0.22	563	512
BUSINESS/CHMCE	633	1.60	461	498	SOCIAL PSYCH	84	0.21	490	484
NUTRITION	619	1.57	460	492	ELECTRICAL ENG	83	0.21	451	642
PHYSICAL ED	595	1.51	416	443	LAW	80	0.20	453	455
MUSIC	545	1.38	493	473	CIVIL ENG	79	0.20	473	630
OTHER SOC SCI	513	1.30	473	460	CHEMICAL ENG	69	0.17	470	615
COMMUNICATIONS	500	1.27	470	443	ARCHAEOLOGY	68	0.17	560	484
FINE ARTS	480	1.22	474	446	ENTOMOLOGY	65	0.16	507	535
OTHER BIOL SCI	468	1.19	507	535	FORESTRY	65	0.16	544	560
EDUC PSYCH	453	1.15	459	458	DENTISTRY	61	0.15	478	545
JOURNALISM	437	1.11	531	471	OTHER PHYS SCI	59	0.15	489	582
BIOLOGY	414	1.05	507	536	INDUSTRIAL ENG	58	0.15	449	592
HOSPITAL ADMIN	391	0.99	473	477	STATISTICS	56	0.14	438	625
VET MEDICINE	387	0.98	528	564	PHYSICS	50	0.13	511	639
HOME ECONOMICS	356	0.90	431	457	AMER STUDIES	49	0.12	568	516
SPEECH	343	0.87	454	434	GERMAN	47	0.12	525	501
HISTORY	342	0.87	542	466	MECHANICAL ENG	44	0.11	546	663
ECONOMICS	310	0.79	478	549	OCEANOGRAPHY	42	0.11	540	585
URBAN DEVELOP	309	0.78	507	496	NEAR EAST LANG	42	0.11	485	488
SOCIOLOGY	305	0.77	458	451	FAR EAST LANG	34	0.09	496	508
ARCHITECTURE	300	0.76	515	550	ANATOMY	29	0.07	509	528
INTERNAT REL	299	0.76	537	492	APPLIED MATH	23	0.06	496	627
GEOLOGY	297	0.75	532	566	CLASSICAL LANG	23	0.06	627	545
RELIGIOUS STD	295	0.75	542	494	BACTERIOLOGY	19	0.05	451	504
PHYS THERAPY	266	0.67	484	505	ITALIAN	17	0.04	439	441
ANTHROPOLOGY	266	0.67	542	498	RUSSIAN	16	0.04	583	501
POLITICAL SCI	263	0.67	487	461	SLAVIC STUDIES	15	0.04	613	517
MICROBIOLOGY	259	0.66	467	523	PARASITOLOGY	13	0.03	472	532
DRAMATIC ARTS	237	0.60	506	455	AERONAUT ENG	12	0.03	449	598
INDUSTRIAL REL	232	0.59	486	473	OTHER FOR LANG	9	0.02	501	438
AGRICULTURE	224	0.57	473	515	METALLURGY	7	0.02	431	554
ART HISTORY	221	0.56	525	470	ASTRONOMY	6	0.02	428	528
CHEMISTRY	216	0.55	460	581	OPTOMETRY	6	0.02	517	618
BIOCHEMISTRY	182	0.46	486	562	BIOPHYSICS	5	0.01	554	564
LINGUISTICS	176	0.45	513	524	MINING	3	0.01	400	580
OTH HUMANITIES	167	0.42	512	477	OSTEOPATHY	3	0.01	623	563
MATHEMATICS	166	0.42	453	633					
AUDIOLOGY	148	0.37	467	458					
OCCUP THERAPY	143	0.36	477	466	NOT IN ABOVE	1060	2.68	466	463
SPANISH	141	0.36	465	438	UNDECIDED	2985	7.56	473	480
ZOOLOGY	141	0.36	527	540	TOTAL	39484	100.00	478	479
GENETICS	137	0.35	516	576	NO RESPONSE	810	2.01*	477	482

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 14. RANK ORDER OF INTENDED GRADUATE MAJOR FOR MALES AGE 30-39

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	1278	9.15	463	484	OTH HUMANITIES	50	0.36	548	503
EDUC ADMIN	1076	7.70	452	480	STATISTICS	40	0.29	402	630
PSYCHOLOGY	838	6.00	539	516	PHYSIOLOGY	40	0.29	481	528
PUBLIC ADMIN	611	4.37	466	472	PHARMACY	40	0.29	458	548
COMPUTER SCI	535	3.83	492	638	AERONAUT ENG	36	0.26	436	653
RELIGIOUS STD	520	3.72	524	502	PHARMACOLOGY	35	0.25	469	561
BUSINESS/CMRCE	491	3.51	474	551	BIOCHEMISTRY	34	0.24	462	526
GUIDANCE/COUNS	408	2.92	479	467	ZOOLOGY	34	0.24	493	519
ECONOMICS	350	2.51	433	566	LAW	33	0.24	463	432
ELECTRICAL ENG	341	2.44	422	640	SPEECH	32	0.23	524	503
AGRICULTURE	242	1.73	369	472	MEDICINE	31	0.22	491	572
OTHER SOC SCI	241	1.73	465	487	PHYS THERAPY	29	0.21	526	531
ENGLISH	237	1.70	579	488	ENTOMOLOGY	28	0.20	470	527
SOCIAL WORK	224	1.60	506	468	BOTANY	27	0.19	517	550
POLITICAL SCI	223	1.60	452	473	NUTRITION	25	0.18	399	474
PHYSICAL ED	221	1.58	412	455	PATHOLOGY	24	0.17	449	555
HISTORY	210	1.50	511	474	SPANISH	23	0.16	457	401
OTHER ENGIN	192	1.37	437	614	APPLIED MATH	22	0.16	458	628
CIVIL ENG	184	1.32	408	612	ARCHAEOLOGY	21	0.15	573	532
PUBLIC HEALTH	176	1.26	500	523	SOCIAL PSYCH	20	0.14	488	454
HOSPITAL ADMIN	159	1.14	481	502	GENETICS	19	0.14	515	568
EDUC PSYCH	157	1.12	486	482	METALLURGY	18	0.13	321	554
COMMUNICATIONS	154	1.10	502	497	NEAR EAST LANG	18	0.13	577	566
GEOLOGY	148	1.06	513	571	COMPARE LIT	16	0.11	502	428
BIOLOGY	132	0.94	498	530	FRENCH	16	0.11	521	516
FINE ARTS	132	0.94	478	431	OCEANOGRAPHY	15	0.11	449	598
ARCHITECTURE	124	0.89	517	580	ART HISTORY	15	0.11	541	497
URBAN DEVELOP	123	0.88	453	512	AMER STUDIES	14	0.10	546	567
MECHANICAL ENG	121	0.87	421	645	HOME ECONOMICS	13	0.09	471	454
LIBRARY SCI	121	0.87	560	493	BACTERIOLOGY	11	0.08	448	495
INTERNAT REL	117	0.84	511	511	ANATOMY	9	0.06	551	544
MUSIC	116	0.83	499	485	MINING	9	0.06	394	632
OTHER BIOL SCI	114	0.82	494	549	CLASSICAL LANG	9	0.06	598	563
PHYSICS	113	0.81	461	646	ITALIAN	8	0.06	488	485
NURSING	111	0.79	503	491	FAR EAST LANG	8	0.06	525	555
SOCIOLOGY	108	0.77	449	451	ASTRONOMY	8	0.06	544	648
INDUSTRIAL ENG	103	0.74	417	606	RUSSIAN	7	0.05	521	477
CHEMISTRY	101	0.72	453	597	OCCUP THERAPY	6	0.04	493	478
INDUSTRIAL REL	101	0.72	470	501	PARASITOLOGY	6	0.04	363	500
JOURNALISM	97	0.69	569	514	BIOPHYSICS	5	0.04	550	590
ANTHROPOLOGY	95	0.68	531	489	SLAVIC STUDIES	5	0.04	460	592
MATHEMATICS	87	0.62	483	657	AUDIOLOGY	5	0.04	478	552
DRAMATIC ARTS	73	0.52	531	508	OPTOMETRY	4	0.03	573	598
GEOGRAPHY	69	0.49	457	493	GERMAN	4	0.03	465	443
VET MEDICINE	68	0.49	472	565	OSTEOPATHY	3	0.02	513	500
LINGUISTICS	68	0.49	474	510	OTHER FOR LANG	2	0.01	425	485
OTHER PHYS SCI	67	0.48	493	631					
DENTISTRY	64	0.46	511	564					
PHILOSOPHY	59	0.42	575	559	NOT IN ABOVE	479	3.43	476	525
CHEMICAL ENG	58	0.42	408	641	UNDECIDED	746	5.34	464	503
MICROBIOLOGY	55	0.39	475	538	TOTAL	13969	100.00	477	520
FORESTRY	54	0.39	495	570	NO RESPONSE	353	2.46*	457	523

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 15. RANK ORDER OF INTENDED GRADUATE MAJOR FOR FEMALES AGE 30-39

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	3955	22.69	470	434	BIOCHEMISTRY	28	0.16	500	563
NURSING	1634	9.37	510	460	BOTANY	26	0.15	542	518
PSYCHOLOGY	1471	8.44	543	481	COMPARE LIT	26	0.15	529	418
EDUC ADMIN	862	4.95	466	437	AMER STUDIES	25	0.14	534	458
GUIDANCE/COUNS	841	4.83	480	428	PHILOSOPHY	25	0.14	546	466
SOCIAL WORK	604	3.47	505	428	MEDICINE	24	0.14	512	523
LIBRARY SCI	591	3.39	530	456	PHARMACOLOGY	24	0.14	498	552
ENGLISH	468	2.69	569	451	STATISTICS	21	0.12	435	582
PUBLIC ADMIN	349	2.00	498	444	NEAR EAST LANG	21	0.12	458	423
EDUC PSYCH	343	1.97	519	467	OTHER ENGIN	20	0.11	518	585
PUBLIC HEALTH	335	1.92	525	486	PHARMACY	20	0.11	496	592
BUSINESS/MNRCE	225	1.29	502	510	PHYSIOLOGY	18	0.10	552	524
OTHER SOC SCI	201	1.15	494	434	PATHOLOGY	18	0.10	504	507
COMPUTER SCI	200	1.15	503	609	ARCHAEOLOGY	17	0.10	532	454
COMMUNICATIONS	183	1.05	524	456	ZOOLOGY	17	0.10	539	525
HISTORY	172	0.99	550	443	GENETICS	17	0.10	521	506
FINE ARTS	171	0.98	491	431	LAW	16	0.09	438	418
HOME ECONOMICS	162	0.93	452	428	OTHER PHYS SCI	15	0.09	517	500
RELIGIOUS STD	157	0.90	540	468	ELECTRICAL ENG	13	0.07	475	548
HOSPITAL ADMIN	155	0.89	484	452	PHYSICS	11	0.06	515	628
SOCIOLOGY	140	0.80	508	432	FAR EAST LANG	11	0.06	490	504
PHYSICAL ED	133	0.76	433	421	APPLIED MATH	11	0.06	584	575
ANTHROPOLOGY	130	0.75	577	484	ANATOMY	10	0.06	455	482
MUSIC	128	0.73	514	449	CIVIL ENG	10	0.06	455	632
NUTRITION	118	0.68	503	477	PARASITOLOGY	10	0.06	417	456
JOURNALISM	118	0.68	556	466	RUSSIAN	9	0.05	421	442
OTHER BIOL SCI	106	0.61	515	512	ENTOMOLOGY	8	0.05	553	508
BIOLOGY	103	0.59	540	516	BACTERIOLOGY	8	0.05	493	491
LINGUISTICS	102	0.59	534	497	CLASSICAL LANG	7	0.04	620	533
SPEECH	94	0.54	514	446	INDUSTRIAL ENG	7	0.04	571	593
ARCHITECTURE	86	0.49	566	552	GERMAN	7	0.04	493	414
URBAN DEVELOP	86	0.49	515	464	DENTISTRY	7	0.04	439	543
ART HISTORY	82	0.47	587	444	CHEMICAL ENG	6	0.03	493	617
POLITICAL SCI	80	0.46	552	457	ITALIAN	5	0.03	448	426
INDUSTRIAL REL	74	0.42	534	448	BIOPHYSICS	5	0.03	574	520
ECONOMICS	73	0.42	510	536	FORESTRY	4	0.02	548	530
DRAMATIC ARTS	71	0.41	553	442	OTHER FOR LANG	3	0.02	337	440
MICROBIOLOGY	71	0.41	523	514	OCEANOGRAPHY	3	0.02	433	447
OTH HUMANITIES	62	0.36	516	445	ASTRONOMY	3	0.02	577	680
VET MEDICINE	61	0.35	565	572	MECHANICAL ENG	2	0.01	585	710
MATHEMATICS	57	0.33	461	629	METALLURGY	2	0.01	305	485
GEOLOGY	51	0.29	588	572	OSTEOPATHY	1	0.01	450	580
CHEMISTRY	48	0.28	491	595	SLAVIC STUDIES	1	0.01	590	430
INTERNAT REL	47	0.27	529	466	OPTOMETRY	1	0.01	740	490
SOCIAL PSYCH	41	0.24	521	445	MINING	0	0.0	0	0
PHYS THERAPY	38	0.22	514	525	AERONAUT ENG	0	0.0	0	0
SPANISH	38	0.22	459	397					
AGRICULTURE	37	0.21	467	477					
OCCUP THERAPY	36	0.21	513	487	NOT IN ABOVE	444	2.55	494	458
AUDIOLOGY	35	0.20	524	486	UNDECIDED	959	5.50	499	459
GEOGRAPHY	31	0.18	533	505	TOTAL	17430	100.00	503	458
FRENCH	28	0.16	520	459	NO RESPONSE	411	2.30*	492	452

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 16. RANK ORDER OF INTENDED GRADUATE MAJOR FOR MALES AGE 40 OR MORE

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	374	12.84	459	453	MEDICINE	7	0.24	539	546
EDUC ADMIN	351	12.05	431	431	MICROBIOLOGY	6	0.21	532	558
PSYCHOLOGY	157	5.39	519	479	PHYSIOLOGY	6	0.21	428	458
PUBLIC ADMIN	155	5.32	468	443	STATISTICS	5	0.17	470	610
BUSINESS/CMRCE	153	5.25	471	524	PHARMACY	5	0.17	350	500
GUIDANCE/COUNS	116	3.98	464	424	ENTOMOLOGY	5	0.17	458	440
RELIGIOUS STD	109	3.74	506	469	FORESTRY	5	0.17	518	528
COMPUTER SCI	94	3.23	511	598	DENTISTRY	5	0.17	364	460
HISTORY	70	2.40	556	451	SPEECH	5	0.17	476	418
OTHER SOC SCI	67	2.30	488	473	HOME ECONOMICS	4	0.14	478	448
POLITICAL SCI	58	1.99	481	452	CHEMICAL ENG	4	0.14	440	680
ENGLISH	46	1.58	547	426	ART HISTORY	4	0.14	505	423
ECONOMICS	43	1.48	473	549	BIOCHEMISTRY	4	0.14	433	585
ELECTRICAL ENG	42	1.44	455	592	FAR EAST LANG	4	0.14	405	468
LIBRARY SCI	36	1.24	542	443	AUDIOLOGY	4	0.14	453	483
SOCIAL WORK	36	1.24	488	431	OCEANOGRAPHY	3	0.10	540	543
MUSIC	32	1.10	453	480	NEAR EAST LANG	3	0.10	520	487
SOCIOLOGY	29	1.00	470	399	SOCIAL PSYCH	3	0.10	540	463
PUBLIC HEALTH	28	0.96	526	509	BOTANY	3	0.10	490	560
EDUC PSYCH	28	0.96	532	466	COMPARE LIT	3	0.10	663	517
COMMUNICATIONS	27	0.93	501	457	ZOOLOGY	3	0.10	660	603
AGRICULTURE	25	0.86	423	444	METALLURGY	2	0.07	280	505
OTHER ENGIN	25	0.86	493	616	FRENCH	2	0.07	555	605
PHYSICAL ED	24	0.82	375	388	PATHOLOGY	2	0.07	415	475
HOSPITAL ADMIN	23	0.79	463	445	AMER STUDIES	2	0.07	495	335
URBAN DEVELOP	22	0.76	532	514	PHARMACOLOGY	2	0.07	605	595
JOURNALISM	20	0.69	549	467	ASTRONOMY	2	0.07	385	400
GEOLOGY	20	0.69	526	563	RUSSIAN	1	0.03	660	530
INTERNAT REL	20	0.69	544	469	MINING	1	0.03	300	340
OTHER PHYS SCI	18	0.62	467	581	ANATOMY	1	0.03	530	590
CIVIL ENG	18	0.62	417	597	ITALIAN	1	0.03	390	410
INDUSTRIAL REL	18	0.62	474	508	OCCUP THERAPY	1	0.03	570	540
INDUSTRIAL ENG	17	0.58	456	577	BACTERIOLOGY	1	0.03	480	510
MATHEMATICS	15	0.52	484	645	PHYS THERAPY	1	0.03	480	390
FINE ARTS	15	0.52	450	399	APPLIED MATH	1	0.03	830	790
DRAMATIC ARTS	14	0.48	510	419	OTHER FOR LANG	1	0.03	330	330
ANTHROPOLOGY	14	0.48	566	463	NUTRITION	1	0.03	210	520
LINGUISTICS	14	0.48	537	534	AERONAUT ENG	1	0.03	600	760
NURSING	13	0.45	456	424	CLASSICAL LANG	1	0.03	320	320
PHYSICS	13	0.45	512	676	PARASITOLOGY	0	0.0	0	0
PHILOSOPHY	13	0.45	601	511	GENETICS	0	0.0	0	0
CHEMISTRY	12	0.41	338	591	BIOPHYSICS	0	0.0	0	0
LAW	12	0.41	434	396	OPTOMETRY	0	0.0	0	0
VET MEDICINE	11	0.38	395	464	GERMAN	0	0.0	0	0
MECHANICAL ENG	11	0.38	430	580	SLAVIC STUDIES	0	0.0	0	0
BIOLOGY	10	0.34	530	542	OSTEOPATHY	0	0.0	0	0
OTH HUMANITIES	10	0.34	564	530					
GEOGRAPHY	9	0.31	538	541					
ARCHAEOLOGY	9	0.31	588	530	NOT IN ABOVE	124	4.26	455	460
SPANISH	8	0.27	413	343	UNDECIDED	155	5.32	444	441
OTHER BIOL SCI	7	0.24	467	583	TOTAL	2912	100.00	475	473
ARCHITECTURE	7	0.24	479	509	NO RESPONSE	83	2.77*	448	462

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 17. RANK ORDER OF INTENDED GRADUATE MAJOR FOR FEMALES AGE 40 OR MORE

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	1787	26.97	467	400	PHARMACOLOGY	8	0.12	565	540
NURSING	559	8.44	485	409	AMER STUDIES	8	0.12	536	378
PSYCHOLOGY	444	6.70	528	431	BOTANY	7	0.11	657	590
EDUC ADMIN	423	6.38	462	395	NEAR EAST LANG	6	0.09	467	400
GUIDANCE/COUNS	359	5.42	477	391	ITALIAN	6	0.09	527	412
LIBRARY SCI	301	4.54	518	414	OTHER PHYS SCI	6	0.09	560	537
ENGLISH	208	3.14	556	410	GEOLOGY	6	0.09	590	502
SOCIAL WORK	193	2.91	504	391	ARCHITECTURE	6	0.09	525	507
PUBLIC ADMIN	122	1.84	497	417	PHYSIOLOGY	6	0.09	470	407
EDUC PSYCH	108	1.63	501	419	AGRICULTURE	6	0.09	460	478
PUBLIC HEALTH	106	1.60	492	423	PATHOLOGY	4	0.06	435	468
OTHER SOC SCI	93	1.40	496	425	GENETICS	4	0.06	650	560
HISTORY	91	1.37	563	403	ARCHAEOLOGY	4	0.06	478	330
RELIGIOUS STD	77	1.16	531	426	STATISTICS	4	0.06	615	625
HOSPITAL ADMIN	73	1.10	457	389	ELECTRICAL ENG	3	0.05	463	630
FINE ARTS	71	1.07	492	398	OTHER ENGIN	3	0.05	457	533
SOCIOLOGY	68	1.03	508	435	ZOOLOGY	3	0.05	523	497
BUSINESS/CMRCE	64	0.97	505	446	OTHER FOR LANG	3	0.05	540	407
MUSIC	63	0.95	498	396	OPTOMETRY	3	0.05	553	507
HOME ECONOMICS	53	0.80	462	404	INDUSTRIAL ENG	2	0.03	375	570
ANTHROPOLOGY	51	0.77	584	438	VET MEDICINE	2	0.03	440	475
COMMUNICATIONS	51	0.77	511	411	CLASSICAL LANG	2	0.03	655	410
SPEECH	41	0.62	506	392	APPLIED MATH	2	0.03	420	750
ART HISTORY	35	0.53	545	391	CIVIL ENG	2	0.03	620	505
SPANISH	34	0.51	434	359	BACTERIOLOGY	2	0.03	520	435
NUTRITION	30	0.45	493	429	FORESTRY	2	0.03	645	450
COMPUTER SCI	30	0.45	515	576	BIOPHYSICS	2	0.03	505	520
BIOLOGY	27	0.41	490	459	PHARMACY	1	0.02	360	460
OTH HUMANITIES	27	0.41	537	383	OCEANOGRAPHY	1	0.02	430	300
INDUSTRIAL REL	25	0.38	498	433	DENTISTRY	1	0.02	450	340
POLITICAL SCI	25	0.38	493	426	MEDICINE	1	0.02	350	500
URBAN DEVELOP	25	0.38	524	385	PHYSICS	1	0.02	570	690
OTHER BIOL SCI	24	0.36	495	437	ANATOMY	1	0.02	740	580
PHYSICAL ED	22	0.33	478	405	PARASITOLOGY	1	0.02	450	430
JOURNALISM	19	0.29	591	430	ENTOMOLOGY	1	0.02	530	460
LINGUISTICS	18	0.27	467	409	RUSSIAN	1	0.02	770	560
DRAMATIC ARTS	17	0.26	532	430	OSTEOPATHY	0	0.0	0	0
ECONOMICS	16	0.24	467	483	MECHANICAL ENG	0	0.0	0	0
INTERNAT REL	13	0.20	529	456	PHYS THERAPY	0	0.0	0	0
MICROBIOLOGY	13	0.20	512	465	METALLURGY	0	0.0	0	0
COMPARE LIT	13	0.20	575	406	MINING	0	0.0	0	0
OCCUP THERAPY	12	0.18	531	443	CHEMICAL ENG	0	0.0	0	0
LAW	11	0.17	456	356	SLAVIC STUDIES	0	0.0	0	0
BIOCHEMISTRY	10	0.15	451	496	ASTRONOMY	0	0.0	0	0
GEOGRAPHY	10	0.15	522	466	AERONAUT ENG	0	0.0	0	0
MATHEMATICS	10	0.15	521	689	FAR EAST LANG	0	0.0	0	0
SOCIAL PSYCH	10	0.15	424	351					
PHILOSOPHY	10	0.15	551	460					
AUDIOLOGY	10	0.15	452	420	NOT IN ABOVE	188	2.84	468	397
FRENCH	10	0.15	508	452	UNDECIDED	388	5.85	481	411
CHEMISTRY	9	0.14	549	561	TOTAL	6627	100.00	491	410
GERMAN	9	0.14	540	422	NO RESPONSE	162	2.39*	478	407

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 18. RANK ORDER OF INTENDED GRADUATE MAJOR FOR MALES WHO RECEIVED BACHELORS DEGREE 1972-1966

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUC ADMIN	775	11.59	457	488	CHEMICAL ENG	20	0.30	402	670
EDUCATION	745	11.14	478	502	PHYSIOLOGY	17	0.25	513	554
PSYCHOLOGY	349	5.22	568	538	BOTANY	17	0.25	486	552
RELIGIOUS STD	278	4.16	556	525	PHYS THERAPY	16	0.24	511	529
PUBLIC ADMIN	274	4.10	500	501	OTH HUMANITIES	16	0.24	605	564
COMPUTER SCI	250	3.74	518	661	PHARMACY	16	0.24	438	539
BUSINESS/CMRCE	218	3.26	504	581	MEDICINE	15	0.22	475	629
GUIDANCE/COUNS	214	3.20	492	478	SPEECH	15	0.22	542	529
ECONOMICS	134	2.00	461	602	PHARMACOLOGY	14	0.21	481	593
ELECTRICAL ENG	132	1.97	441	667	STATISTICS	13	0.19	443	633
PHYSICAL ED	119	1.78	425	464	PATHOLOGY	13	0.19	454	545
ENGLISH	117	1.75	586	499	ZOOLOGY	12	0.18	579	562
SOCIAL WORK	105	1.57	548	502	ENTOMOLOGY	12	0.18	477	520
HISTORY	102	1.53	520	472	NUTRITION	10	0.15	343	469
OTHER SOC SCI	95	1.42	504	519	FRENCH	9	0.13	519	509
AGRICULTURE	94	1.41	398	492	NEAR EAST LANG	9	0.13	618	606
OTHER ENGIN	91	1.36	444	638	AMER STUDIES	8	0.12	595	549
EDUC PSYCH	86	1.29	517	511	COMPARE LIT	8	0.12	566	491
POLITICAL SCI	84	1.26	496	491	ARCHAEOLOGY	8	0.12	614	560
HOSPITAL ADMIN	76	1.14	496	511	HOME ECONOMICS	8	0.12	429	456
COMMUNICATIONS	76	1.14	523	518	LAW	8	0.12	528	461
PUBLIC HEALTH	75	1.12	533	557	APPLIED MATH	8	0.12	531	659
CIVIL ENG	75	1.12	414	635	MINING	7	0.10	403	661
LIBRARY SCI	74	1.11	582	515	BIOCHEMISTRY	7	0.10	393	509
MUSIC	65	0.97	494	480	ART HISTORY	7	0.10	556	516
ARCHITECTURE	59	0.88	553	602	SPANISH	7	0.10	486	420
INTERNAT REL	56	0.84	573	561	ANATOMY	7	0.10	546	517
MECHANICAL ENG	55	0.82	454	667	OCEANOGRAPHY	6	0.09	470	620
OTHER BIOL SCI	53	0.79	484	563	CLASSICAL LANG	6	0.09	572	555
URBAN DEVELOP	53	0.79	487	547	METALLURGY	6	0.09	453	670
FINE ARTS	50	0.75	498	440	GENETICS	5	0.07	498	634
MATHEMATICS	49	0.73	467	657	BACTERIOLOGY	5	0.07	428	504
INDUSTRIAL ENG	46	0.69	452	646	SLAVIC STUDIES	4	0.06	403	580
INDUSTRIAL REL	45	0.67	490	504	NAR EAST LANG	4	0.06	453	508
GEOLOGY	44	0.66	508	562	SOCIAL PSYCH	3	0.04	550	503
SOCIOLOGY	43	0.64	479	489	RUSSIAN	3	0.04	507	467
PHYSICS	42	0.63	441	666	ITALIAN	3	0.04	447	500
BIOLOGY	42	0.63	522	545	OCCUP THERAPY	3	0.04	487	523
JOURNALISM	41	0.61	592	527	OPTOMETRY	2	0.03	595	580
ANTHROPOLOGY	40	0.60	564	506	OTHER FOR LANG	2	0.03	425	485
CHEMISTRY	39	0.58	417	580	ASTRONOMY	2	0.03	470	640
OTHER PHYS SCI	38	0.57	494	639	GERMAN	1	0.01	490	530
DENTISTRY	38	0.57	548	557	BIOPHYSICS	1	0.01	650	530
DRAMATIC ARTS	35	0.52	532	502	PARASITOLOGY	1	0.01	310	400
LINGUISTICS	34	0.51	492	528	AUDIOLOGY	1	0.01	660	740
GEOGRAPHY	26	0.39	488	487	OSTEOPATHY	0	0.0	0	0
VET MEDICINE	25	0.37	455	562					
MICROBIOLOGY	25	0.37	515	561					
AERONAUT ENG	24	0.36	441	658					
FORESTRY	23	0.34	492	615	NOT IN ABOVE	238	3.56	491	549
PHILOSOPHY	22	0.33	587	568	UNDECIDED	312	4.67	501	528
NURSING	21	0.31	506	480	TOTAL	6686	100.00	497	535
					NO RESPONSE	103	1.52*	507	550

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1960 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 19. RANK ORDER OF INTENDED GRADUATE MAJOR FOR FEMALES WHO RECEIVED BACHELORS DEGREE 1972-1966

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	2512	27.21	477	446	COMPARE LIT	15	0.16	524	406
EDUC ADMIN	668	7.24	472	440	PHARMACOLOGY	14	0.15	521	572
PSYCHOLOGY	623	6.75	569	503	GEOLOGY	13	0.14	636	588
NURSING	609	6.60	526	476	SPANISH	13	0.14	478	422
GUIDANCE/COUNS	483	5.23	498	447	NEAR EAST LANG	12	0.13	468	442
LIBRARY SCI	361	3.91	541	463	OTHER ENGIN	12	0.13	519	605
SOCIAL WORK	254	2.75	527	449	AMER STUDIES	11	0.12	559	463
ENGLISH	227	2.46	595	464	PHYSIOLOGY	10	0.11	586	523
EDUC PSYCH	207	2.24	532	479	BOTANY	9	0.10	608	539
PUBLIC ADMIN	194	2.10	506	461	PATHOLOGY	8	0.09	540	548
PUBLIC HEALTH	165	1.79	549	513	APPLIED MATH	8	0.09	548	554
COMPUTER SCI	125	1.35	502	615	PHILOSOPHY	8	0.09	570	485
BUSINESS/CHMCE	116	1.26	517	508	MEDICINE	8	0.09	469	495
OTHER SOC SCI	111	1.20	512	461	GENETICS	8	0.09	511	546
RELIGIOUS STD	92	1.00	557	478	ZOOLOGY	8	0.09	544	520
COMMUNICATIONS	91	0.99	519	463	PHARMACY	6	0.06	392	520
PHYSICAL ED	91	0.99	437	430	FORESTRY	6	0.06	597	553
HOME ECONOMICS	89	0.96	468	430	ELECTRICAL ENG	6	0.06	460	522
MUSIC	79	0.86	517	448	OTHER PHYS SCI	5	0.05	446	470
FINE ARTS	76	0.82	471	431	PHYSICS	5	0.05	482	672
HOSPITAL ADMIN	73	0.79	489	470	CLASSICAL LANG	5	0.05	628	530
JOURNALISM	67	0.73	554	467	ITALIAN	5	0.05	532	466
HISTORY	64	0.69	557	450	LAW	5	0.05	448	408
LINGUISTICS	57	0.62	549	506	INDUSTRIAL ENG	4	0.04	535	710
ARCHITECTURE	56	0.61	579	554	BACTERIOLOGY	4	0.04	410	510
NUTRITION	53	0.57	502	491	FAR EAST LANG	4	0.04	500	475
BIOLOGY	50	0.54	551	530	CIVIL ENG	4	0.04	495	640
SPEECH	47	0.51	512	444	ANATOMY	4	0.04	433	513
SOCIOLOGY	43	0.47	515	460	DENTISTRY	4	0.04	490	560
OTHER BIOL SCI	41	0.44	507	531	OCEANOGRAPHY	3	0.03	433	447
DRAMATIC ARTS	38	0.41	579	453	RUSSIAN	3	0.03	467	507
ANTHROPOLOGY	38	0.41	568	486	CHEMICAL ENG	3	0.03	477	680
URBAN DEVELOP	38	0.41	535	473	GERMAN	3	0.03	587	420
ART HISTORY	37	0.40	605	449	PARASITOLOGY	3	0.03	420	413
POLITICAL SCI	37	0.40	566	490	ARCHAEOLOGY	3	0.03	547	400
ECONOMICS	35	0.38	526	537	ENTOMOLOGY	2	0.02	635	605
INDUSTRIAL REL	32	0.35	542	449	BIOPHYSICS	1	0.01	370	420
MATHEMATICS	29	0.31	432	639	OTHER FOR LANG	1	0.01	290	540
OTH HUMANITIES	28	0.30	566	498	METALLURGY	1	0.01	310	530
MICROBIOLOGY	26	0.28	530	493	ASTRONOMY	1	0.01	520	700
PHYS THERAPY	22	0.24	553	550	AERONAUT ENG	0	0.0	0	0
VET MEDICINE	22	0.24	597	584	MECHANICAL ENG	0	0.0	0	0
INTERNAT REL	21	0.23	551	490	MINING	0	0.0	0	0
BIOCHEMISTRY	19	0.21	459	544	OPTOMETRY	0	0.0	0	0
OCCUP THERAPY	18	0.19	511	483	OSTEOPATHY	0	0.0	0	0
SOCIAL PSYCH	17	0.18	504	468	SLAVIC STUDIES	0	0.0	0	0
STATISTICS	16	0.17	450	594					
CHEMISTRY	16	0.17	490	576					
AUDIOLOGY	16	0.17	543	494					
GEOGRAPHY	15	0.16	530	485	NOT IN ABOVE	243	2.63	504	465
AGRICULTURE	15	0.16	485	482	UNDECIDED	467	5.06	511	471
FRENCH	15	0.16	537	478	TOTAL	9232	100.00	510	468
					NO RESPONSE	128	1.37*	483	445

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 20. RANK ORDER OF INTENDED GRADUATE MAJOR FOR MALES WHO RECEIVED BACHELORS DEGREE 1945 OR EARLIER

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUC ADMIN	315	15.68	454	453	NEAR EAST LANG	4	0.20	535	465
EDUCATION	275	13.69	497	484	HOME ECONOMICS	4	0.20	465	418
PSYCHOLOGY	98	4.88	564	510	OCEANOGRAPHY	4	0.20	598	573
RELIGIOUS STD	85	4.23	528	501	AMER STUDIES	4	0.20	483	438
GUIDANCE/COUNS	84	4.18	502	456	ZOOLOGY	3	0.15	543	507
PUBLIC ADMIN	83	4.13	514	493	BIOCHEMISTRY	3	0.15	460	587
COMPUTER SCI	81	4.03	557	644	ARCHAEOLOGY	3	0.15	543	623
BUSINESS/CHRC	81	4.03	513	559	NURSING	3	0.15	410	443
HISTORY	38	1.89	586	492	APPLIED MATH	3	0.15	563	613
OTHER SOC SCI	36	1.79	518	506	SPEECH	3	0.15	547	407
EDUC PSYCH	31	1.54	536	483	MICROBIOLOGY	3	0.15	567	530
ELECTRICAL ENG	29	1.44	466	618	PHYSIOLOGY	3	0.15	427	437
POLITICAL SCI	29	1.44	486	471	DENTISTRY	3	0.15	483	477
ECONOMICS	28	1.39	486	553	ENTOMOLOGY	3	0.15	440	487
MUSIC	26	1.29	481	481	BACTERIOLOGY	2	0.10	340	575
ENGLISH	25	1.24	582	445	PATHOLOGY	2	0.10	375	535
LIBRARY SCI	24	1.19	534	443	SOCIAL PSYCH	2	0.10	565	480
SOCIAL WORK	24	1.19	535	477	ART HISTORY	2	0.10	535	425
OTHER ENGIN	23	1.14	523	663	PHARMACY	2	0.10	405	510
PUBLIC HEALTH	22	1.10	545	550	SPANISH	2	0.10	490	325
AGRICULTURE	21	1.05	382	422	CHEMICAL ENG	2	0.10	250	560
HOSPITAL ADMIN	19	0.95	498	505	METALLURGY	1	0.05	200	490
PHYSICAL ED	19	0.95	356	394	ITALIAN	1	0.05	390	410
URBAN DEVELOP	18	0.90	517	482	ASTRONOMY	1	0.05	250	200
PHYSICS	17	0.85	474	653	NUTRITION	1	0.05	210	520
JOURNALISM	16	0.80	568	486	PHARMACOLOGY	1	0.05	610	590
COMMUNICATIONS	15	0.75	579	525	FRENCH	1	0.05	670	630
INDUSTRIAL REL	14	0.70	508	525	AERONAUT ENG	1	0.05	600	760
DRAMATIC ARTS	13	0.65	549	475	AUDIOLOGY	1	0.05	490	600
CIVIL ENG	13	0.65	458	641	OPTOMETRY	1	0.05	650	570
MATHEMATICS	13	0.65	560	691	BIOPHYSICS	0	0.0	0	0
FINE ARTS	12	0.60	493	432	MINING	0	0.0	0	0
SOCIOLOGY	12	0.60	573	498	CLASSICAL LANG	0	0.0	0	0
BIOLOGY	11	0.55	495	523	PARASITOLOGY	0	0.0	0	0
OTHER PHYS SCI	11	0.55	480	635	SLAVIC STUDIES	0	0.0	0	0
INDUSTRIAL ENG	11	0.55	434	629	PHYS THERAPY	0	0.0	0	0
CHEMISTRY	10	0.50	470	633	OSTEOPATHY	0	0.0	0	0
ANTHROPOLOGY	10	0.50	567	457	GENETICS	0	0.0	0	0
OTH HUMANITIES	10	0.50	605	507	RUSSIAN	0	0.0	0	0
LINGUISTICS	10	0.50	609	541	OCCUP THERAPY	0	0.0	0	0
VET MEDICINE	9	0.45	403	447	OTHER FOR LANG	0	0.0	0	0
GEOLOGY	9	0.45	519	588	GERMAN	0	0.0	0	0
INTERNAT REL	9	0.45	601	530	ANATOMY	0	0.0	0	0
GEOGRAPHY	8	0.40	546	556	COMPARE LIT	0	0.0	0	0
PHILOSOPHY	7	0.35	629	519	BOTANY	0	0.0	0	0
FORESTRY	7	0.35	467	527	FAR EAST LANG	0	0.0	0	0
STATISTICS	7	0.35	449	641					
LAW	7	0.35	493	439					
MEDICINE	6	0.30	575	558	NOT IN ABOVE	71	3.53	483	511
ARCHITECTURE	6	0.30	602	535	UNDECIDED	72	3.58	504	506
MECHANICAL ENG	5	0.25	440	652	TOTAL	2009	100.00	504	505
OTHER BIOL SCI	5	0.25	588	634	NO RESPONSE	29	1.42*	500	472

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 21. RANK ORDER OF INTENDED GRADUATE MAJOR FOR FEMALES WHO RECEIVED BACHELORS DEGREE 1965 OR EARLIER

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	1531	32.31	490	420	BIOCHEMISTRY	5	0.11	532	536
EDUC ADMIN	373	7.87	473	408	AGRICULTURE	5	0.11	554	524
NURSING	285	6.02	513	427	INTERNAT REL	4	0.08	673	603
PSYCHOLOGY	258	5.45	576	473	GENETICS	4	0.08	568	443
GUIDANCE/COUNS	257	5.42	499	415	BOTANY	4	0.08	660	585
LIBRARY SCI	255	5.38	537	437	ITALIAN	3	0.06	487	433
SOCIAL WORK	140	2.95	541	434	OTHER PHYS SCI	3	0.06	573	577
ENGLISH	120	2.53	576	419	ELECTRICAL ENG	3	0.06	460	627
EDUC PSYCH	102	2.15	532	458	GEOGRAPHY	3	0.06	637	623
PUBLIC ADMIN	71	1.50	543	447	LAW	3	0.06	380	367
PUBLIC HEALTH	66	1.39	555	468	PHARMACOLOGY	3	0.06	667	580
MUSIC	57	1.20	509	395	CIVIL ENG	2	0.04	430	575
RELIGIOUS STD	52	1.10	564	457	PHYS THERAPY	2	0.04	545	505
HOME ECONOMICS	51	1.08	476	420	PHARMACY	2	0.04	420	510
OTHER SOC SCI	49	1.03	497	429	GEOLOGY	2	0.04	555	535
HISTORY	46	0.97	593	436	PHYSICS	2	0.04	495	600
FINE ARTS	44	0.93	519	413	PHYSIOLOGY	2	0.04	565	530
COMPUTER SCI	36	0.76	559	614	ENTOMOLOGY	2	0.04	600	525
BUSINESS/CMRCE	36	0.76	558	479	APPLIED MATH	2	0.04	420	750
SOCIOLOGY	36	0.76	548	455	ASTRONOMY	2	0.04	605	670
HOSPITAL ADMIN	34	0.72	526	453	CLASSICAL LANG	2	0.04	660	495
COMMUNICATIONS	33	0.70	560	427	ZOOLOGY	2	0.04	585	535
NUTRITION	29	0.61	499	440	PARASITOLOGY	2	0.04	475	435
SPEECH	26	0.55	548	418	ARCHAEOLOGY	2	0.04	500	450
PHYSICAL ED	26	0.55	464	399	OPTOMETRY	2	0.04	670	565
ANTHROPOLOGY	24	0.51	610	469	ANATOMY	1	0.02	740	580
OTHER BIOL SCI	23	0.49	507	475	MEDICINE	1	0.02	560	620
ART HISTORY	19	0.40	603	464	BACTERIOLOGY	1	0.02	550	470
JOURNALISM	17	0.36	612	446	BIOPHYSICS	1	0.02	700	570
OTH HUMANITIES	16	0.34	542	437	DENTISTRY	1	0.02	450	340
URBAN DEVELOP	15	0.32	552	417	INDUSTRIAL ENG	1	0.02	800	540
LINGUISTICS	15	0.32	463	397	FAR EAST LANG	1	0.02	510	410
OCCUP THERAPY	14	0.30	536	454	MECHANICAL ENG	0	0.0	0	0
MATHEMATICS	13	0.27	582	714	OSTEOPATHY	0	0.0	0	0
POLITICAL SCI	13	0.27	575	460	FORESTRY	0	0.0	0	0
MICROBIOLOGY	12	0.25	521	454	AERONAUT ENG	0	0.0	0	0
SPANISH	12	0.25	535	403	CHEMICAL ENG	0	0.0	0	0
DRAMATIC ARTS	11	0.23	564	465	OTHER FOR LANG	0	0.0	0	0
CHEMISTRY	10	0.21	516	558	METALLURGY	0	0.0	0	0
ARCHITECTURE	10	0.21	573	553	VET MEDICINE	0	0.0	0	0
INDUSTRIAL REL	10	0.21	595	518	MINING	0	0.0	0	0
AUDIOLOGY	9	0.19	570	476	SLAVIC STUDIES	0	0.0	0	0
ECONOMICS	8	0.17	456	463	OCEANOGRAPHY	0	0.0	0	0
BIOLOGY	7	0.15	599	589	RUSSIAN	0	0.0	0	0
COMPARE LIT	7	0.15	627	446	OTHER ENGIN	0	0.0	0	0
AMER STUDIES	7	0.15	579	417	PATHOLOGY	0	0.0	0	0
FRENCH	6	0.13	528	468					
NEAR EAST LANG	5	0.11	476	442					
STATISTICS	5	0.11	498	638	NOT IN ABOVE	129	2.72	504	426
GERMAN	5	0.11	564	488	UNDECIDED	218	4.60	522	444
SOCIAL PSYCH	5	0.11	496	402	TOTAL	4738	100.00	516	435
PHILOSOPHY	5	0.11	596	486	NO RESPONSE	80	1.66*	521	455

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

TABLE 22. RANK ORDER OF INTENDED GRADUATE MAJOR FOR TOTAL SAMPLE

	N	%	MEAN GRE-V	MEAN GRE-Q		N	%	MEAN GRE-V	MEAN GRE-Q
EDUCATION	18748	9.43	450	447	ART HISTORY	838	0.42	542	483
PSYCHOLOGY	14477	7.28	511	504	INDUSTRIAL ENG	832	0.42	412	623
NURSING	6800	3.42	492	474	PHILOSOPHY	775	0.39	585	559
COMPUTER SCI	5038	2.53	479	641	GENETICS	764	0.38	532	600
GUIDANCE/COUNS	4750	2.39	455	441	LAW	764	0.38	484	494
EDUC ADMIN	4652	2.34	445	452	OTHER PHYS SCI	743	0.37	502	627
BUSINESS/CMRCE	4526	2.28	463	540	GEOGRAPHY	743	0.37	492	527
ENGLISH	4413	2.22	571	492	MEDICINE	742	0.37	507	586
SOCIAL WORK	4340	2.18	466	440	OTH HUMANITIES	692	0.35	530	497
PUBLIC ADMIN	4248	2.14	468	470	AUDIOLOGY	686	0.35	456	471
RELIGIOUS STD	3850	1.94	518	511	PHARMACOLOGY	673	0.34	500	591
ELECTRICAL ENG	3761	1.89	450	667	LINGUISTICS	659	0.33	515	530
ECONOMICS	3495	1.76	483	592	FORESTRY	640	0.32	506	580
GEOLOGY	3003	1.51	509	587	BOTANY	582	0.29	530	570
MUSIC	2821	1.42	492	496	PHARMACY	504	0.25	456	568
OTHER BIOL SCI	2787	1.40	506	562	SPANISH	484	0.24	466	445
CHEMISTRY	2739	1.38	500	630	AERONAUT ENG	448	0.23	478	664
LIBRARY SCI	2679	1.35	527	463	STATISTICS	428	0.22	455	646
VET MEDICINE	2624	1.32	499	581	PATHOLOGY	414	0.21	466	517
BIOLOGY	2597	1.31	505	557	DENTISTRY	402	0.20	481	571
HISTORY	2597	1.31	543	492	SOCIAL PSYCH	367	0.18	480	477
PHYSICAL ED	2565	1.29	411	456	ARCHAEOLOGY	367	0.18	557	520
PUBLIC HEALTH	2498	1.26	497	512	FRENCH	362	0.18	529	503
POLITICAL SCI	2456	1.24	497	502	OCCUP THERAPY	355	0.18	479	483
COMMUNICATIONS	2432	1.22	479	471	OCEANOGRAPHY	353	0.18	506	613
INTERNAT REL	2418	1.22	534	528	ENTOMOLOGY	342	0.17	500	549
OTHER SOC SCI	2288	1.15	475	477	APPLIED MATH	337	0.17	518	676
ARCHITECTURE	2197	1.11	493	572	COMPARE LIT	330	0.17	568	496
OTHER ENGIN	2103	1.06	477	642	NEAR EAST LANG	266	0.13	514	529
AGRICULTURE	2102	1.06	438	523	ANATOMY	243	0.12	491	548
CIVIL ENG	2085	1.05	410	638	AMER STUDIES	234	0.12	546	509
MECHANICAL ENG	1977	0.99	447	666	METALLURGY	190	0.10	425	642
FINE ARTS	1845	0.93	474	453	GERMAN	186	0.09	542	526
PHYSICS	1832	0.92	530	688	ASTRONOMY	181	0.09	555	676
JOURNALISM	1788	0.90	531	492	CLASSICAL LANG	153	0.08	623	563
URBAN DEVELOP	1747	0.88	486	509	FAR EAST LANG	143	0.07	536	535
HOSPITAL ADMIN	1706	0.86	469	493	BACTERIOLOGY	140	0.07	487	535
EDUC PSYCH	1660	0.84	483	472	BIOPHYSICS	117	0.06	574	642
NUTRITION	1579	0.79	464	506	RUSSIAN	116	0.06	547	535
MICROBIOLOGY	1574	0.79	482	550	SLAVIC STUDIES	92	0.05	561	568
CHEMICAL ENG	1515	0.76	476	672	PARASITOLOGY	81	0.04	473	540
SPEECH	1482	0.75	460	451	ITALIAN	69	0.03	483	475
SOCIOLOGY	1477	0.74	469	465	MINING	60	0.03	438	622
BIOCHEMISTRY	1429	0.72	512	608	OTHER FOR LANG	51	0.03	508	503
MATHEMATICS	1366	0.69	501	674	OPTOMETRY	40	0.02	511	580
DRAMATIC ARTS	1263	0.64	524	491	OSTEOPATHY	23	0.01	490	562
INDUSTRIAL REL	1192	0.60	476	493					
ANTHROPOLOGY	1175	0.59	549	506					
PHYS THERAPY	1061	0.53	475	524	NOT IN ABOVE	5295	2.66	466	492
HOME ECONOMICS	1005	0.51	431	447	UNDECIDED	16922	8.51	484	519
ZOOLOGY	936	0.47	527	570	TOTAL	198768	100.00	485	520
PHYSIOLOGY	842	0.42	495	557	NO RESPONSE	4363	2.15*	480	522

* BASED ON ALL GRE RESPONDENTS OCTOBER, 1980 - JUNE, 1981, WHO COMPLETED GRE AND BACKGROUND QUESTIONNAIRE

GRE BOARD RESEARCH REPORTS OF A TECHNICAL NATURE

- Boldt, R. R. Comparison of a Bayesian and a Least Squares Method of Educational Prediction. 70-3P, 1975.
- Campbell, J. T. and Belcher, L. H. Word Associations of Students at Predominantly White and Predominantly Black Colleges. 71-6P, 1975.
- Campbell, J. T. and Donlon, T. F. Relationship of the Figure Location Test to Choice of Graduate Major. 75-7P, 1980.
- Carlson, A. B.; Reilly, R. R.; Mahoney, M. H.; and Casserly, P. L. The Development and Pilot Testing of Criterion Rating Scales. 73-1P, 1976.
- Carlson, A. B.; Evans, F.R.; and Kuykendall, N. M. The Feasibility of Common Criterion Validity Studies of the GRE. 71-1P, 1974.
- Centra, J. A. Graduate Degree Aspirations of Ethnic Student Groups Among GRE Test-Takers. 77-7P, 1980.
- Donlon, T. F. An Exploratory Study of the Implications of Test Speededness. 76-9P, 1980.
- Donlon, T. F.; Reilly, R. R.; and McKee, J. D. Development of a Test of Global vs. Articulated Thinking: The Figure Location Test. 74-9P, 1978.
- Echternacht, G. Alternate Methods of Equating GRE Advanced Tests. 69-2P, 1974.
- Echternacht, G. A Comparison of Various Item Option Weighting Schemes/A Note on the Variances of Empirically Derived Option Scoring Weights. 71-17P, 1975.
- Echternacht, G. A Quick Method for Determining Test Bias. 70-8P, 1974.
- Evans, F. R. The GRE-Q Coaching/Instruction Study. 71-5aP, 1977.
- Fredericksen, N. and Ward, W. C. Development of Measures for the Study of Creativity. 72-2P, 1975.
- Kingston, N. and Dorans, N. Effect of the Position of an Item Within a Test on Item Responding Behavior: An Analysis Based on Item Response Theory. 79-12bP, 1982.
- Kingston, N. M. and Dorans, N. J. The Feasibility of Using Item Response Theory as a Psychometric Model for the GRE Aptitude Test. 79-12P, 1982.
- Levine, M. V. and Drasgow, F. Appropriateness Measurement with Aptitude Test Data and Estimated Parameters. 75-3P, 1980.
- McPeck, M.; Altman, R. A.; Wallmark, M.; and Wingersky, B. C. An Investigation of the Feasibility of Obtaining Additional Subscores on the GRE Advanced Psychology Test. 74-4P, 1976.
- Oltman, P. K. Content Representativeness of the Graduate Record Examinations Advanced Tests in Chemistry, Computer Science, and Education. 81-12P, 1982.
- Pike, L. Implicit Guessing Strategies of GRE Aptitude Examinees Classified by Ethnic Group and Sex. 75-10P, 1980.
- Powers, D. E.; Swinton, S.; Thayer, D.; and Yates, A. A Factor Analytic Investigation of Seven Experimental Analytical Item Types. 77-1P, 1978.
- Powers, D. E.; Swinton, S. S.; and Carlson, A. B. A Factor Analytic Study of the GRE Aptitude Test. 75-11P, 1977.
- Reilly, R. R. and Jackson, R. Effects of Empirical Option Weighting on Reliability and Validity of the GRE. 71-9P, 1974.
- Reilly, R. R. Factors in Graduate Student Performance. 71-2P, 1974.
- Rock, D. A. The Identification of Population Moderators and Their Effect on the Prediction of Doctorate Attainment. 69-6bP, 1975.
- Rock, D. A. The "Test Chooser": A Different Approach to a Prediction Weighting Scheme. 70-2P, 1974.
- Rock, D., Werts, C., and Grandy, J. Construct Validity of the GRE Aptitude Test Across Populations—An Empirical Confirmatory Study. 78-1P, 1982.
- Sharon, A. T. Test of English as a Foreign Language as a Moderator of Graduate Record Examinations Scores in the Prediction of Foreign Students' Grades in Graduate School. 70-1P, 1974.
- Stricker, L. J. A New Index of Differential Subgroup Performance: Application to the GRE Aptitude Test. 78-7P, 1981.
- Swinton, S. S. and Powers, D. E. A Factor Analytic Study of the Restructured GRE Aptitude Test. 77-6P, 1980.
- Ward, W. C. A Comparison of Free-Response and Multiple-Choice Forms of Verbal Aptitude Tests. 79-8P, 1982.
- Ward, W. C.; Frederiksen, N.; and Carlson, S. B. Construct Validity of Free-Response and Machine-Scorable Versions of a Test of Scientific Thinking. 74-8P, 1978.
- Ward, W. C. and Frederiksen, N. A Study of the Predictive Validity of the Tests of Scientific Thinking. 74-6P, 1977.
- Wild, C. L., Swinton, S. S., and Wallmark, M. M. Research Leading to the Revision of the Format of the Graduate Record Examinations Aptitude Test in October 1981. 80-1bP, 1982.